## Soil Borings

Hydrology Dept S&EA Division   KMCLC   HYWOLOGY, NV,	NUMBER PC - 2  REMARKS OR FIELD OBSERVATIONS
DEPTH	KEMAKKS UK
IN LITHOLOGIC DESCRIPTION	PEC   FIELD OBSERVATIONS
FEET LITHOLOGIC DESCRIPTION PER (ppm) NO. WE DEPTH	REC. FIELD OBSERVATIONS
- SAND/SILTY SAND W/ ABD OF	
GRAVEL; LT. TAN- BROWN;   0.1	
WALL-GRAMS; DRY	
5 - GARVEL C 6-7'	-
- GARNEL & GT	
10 - SAND AS ABOVE	-
- GRAVEC C 14-15'	
	_
LO - SARD AS ABOVE, SATURATED 10	_
	-
	GROUNDWATEL SAMPLE TAKEN
	C 30'
	and property and the second
$\begin{vmatrix} 31 \end{vmatrix} + \begin{vmatrix} 30 \end{vmatrix} \begin{vmatrix} 31/2 \end{vmatrix} \begin{vmatrix} 3/5 \end{vmatrix}$	1,4'
- SILTY CLAY; REDOLH- ORDWN - GRADING INTO LT. GRAY-GREEN	
MUDDY CREEK	
35	
70 35'	
▼ Water Table (24 Hour) GRAPHIC LOG LEGEND □	ATE DRILLED PAGE
✓ Water Table (Time of Boring)  CLAY  DEBRIS  DEBRIS	3/23/48 / of /
NO. Identifies Sample by Number	145A
TYPE Sample Collection Method	RILLED BY
IZI X STATE	OGGED BY
THIN- CONTINUOUS AND	T, REED
WALLED TUBE CONTINUOUS NO RECOVERY SILTY CLAY	XISTING GRADE ELEVATION (FT. AMSL)
DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet	OCATION OR GRID COORDINATES

		RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI				LOCATION	^4 ^ 9	:0.)	, N	BORIN	
DE	PTH	- 5) - FR. CSETT DIVIDION	I PAC	()	UNIFIED	BLOWS		100/03		IL SAMPI	1	
	N ET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
		FILL: SAND/GRAVEL	1~	30			_			*		_
	_	IMPOUNDMENT BERM										_
	_			1								_
5	_					-						
	_	SAND; SILTY SAND W/		6.4								_
	-	TO ABO. GRAVEL : LT.		0,								. <u>-</u>
	_	Brown; WELL-GRASGO	; DRY	000								_
10	)			1.51			<u> </u>					
	_	GRAVEL ZONE C 8-9'					_					-
	_			ر این ا	Sm-							
	anti-											
15	_			00	GM		_					
	_	SAND AS ABOUR ; BECOM	nw a	0								
	-	mo157		-			_					
20	-								I			_
	_			.t  -  o								_
	_			0	-						,	
25	3 -			1 -	Y		-					_
25		SAND AS ABOVE; SATUR	AVED	ōp.								CROUNDWAIEN _
	_			Q.b						•		SAMPLE COLLECTED_
				- 01			_					C~28' -
	_			lol.								
30				00								<u> </u>
<i>3</i> 0,	5 -	SILTY CLAY; RED-BROWN		NY	CL	7		+,		37	12	
	_	LT. GRAY- GREEN MUDDY	CREEK			71122		<del>                                     </del>	M	32.5	1,3	
	_	TO 31'										-
	-											<del></del>
	_											
	_											_
							_					_
	¥	Water Table (24 Hour)				G	RAPHIC L	OG LE	GEN		TE DRILLED	PAGE
	_∇ PII		nm)				CLAY		DEBR FILL	IS	3/13/ LLING METH	98   1 of 1
z	NC	<ol> <li>Identifies Sample by Number</li> </ol>							HIGHLY ORGAN	IC (PEAT)	[-] S	M.
ATIO		T SDUT		ЭСК			SAND			OY DIN		A ORILLING
EXPLANATION	X	BARREL	C	ORE			GRAVEL		CLAY	1.00	GED BY	L ORILLING
EX		THIN- WALLED TUBE CONTINUOUS SAMPLER	N Ri	O ECOVER	RY.	1	SILTY CLAY			- 1	STING GRAD	DE ELEVATION (FT. AMSL)
		EPTH Depth Top and Bottom of So EC. Actual Length of Recovered	umple			1	CLAYEY SILT			LO	CATION OR	GRID COORDINATES
			· · ·		1	1						

	KERR-McGEE CORPORATION KM SUBSI	DIARY			LOCATION				BORING	
	Hydrology Dept S&EA Division Km U	-LC			HENDEL	SON,	M		NUMBE	R PC-5
DEP1		불	UNIFIED SOIL	BLOWS PER	PID		SOIL S	AMPLE		REMARKS OR
FEE		GRAPHIC	FIELD CLASS.	6'	(ppm)	NO.	TYPE DE	PTH	REC.	FIELD OBSERVATIONS
	FILL: SAND/ GRAVEL IN	270	>							
2	IMPOUNDMENT GERM	15 w.								
	_ SAND, SILTY SAND; GRANL COMMEN	17-17	-				i.			_
_	WELL- GRADES; LT. TAN- BROWN	0 10								_
5.		0.0								_
	GRAVAL ZONE @ 8-10	0	SM-				Ī			
	SAND AS ABOUT MOIST	dag	GM				ä			_
10.		300								-
, u	,	0.10								_
	GRAVIL C 13'	10								
		9000								_
	- GRAVEL @ 15,5-16,5'	10								+
15		800	•							
		00	2				i			
18			- V		_					4
1		10			_					-
20		0								
	-	id.			<u> </u>					_
	-	6:1	<b>a</b>		_					GROUNDWATER SAMPLE
25		ا ام			_					COULUIS @ 25'_
26		0.0								
27	SILTY CLAY GROWN TO REDOUN-	17:1/	1) CL	32		ļ	2			
	ALASTIC MUDDY CREEK			37		1		<u>, s ′</u>	1,5,	·
	TD. 27'	7.10								
										_
	-									-
	-									-
										. –
	$\dashv$				<u> </u>					
										-
		<u> </u>				<u> </u>				
	▼ Water Table (24 Hour)				RAPHIC L			1	DRILLED	PAGE of /
	<ul> <li>✓ Water Table (Time of Boring)</li> <li>PID Photoionization Detection (ppm)</li> </ul>				CLAY	3.5	DEBRIS FILL	DRIL	/25/9 LING METH	HOD
	NO. Identifies Sample by Number TYPE Sample Collection Method				SILT		HIGHLY ORGANIC (PEA	<sub>T)</sub>	145	<i>A</i>
5	Campic concensis memor			1	SAND		SANDY CLAY	DKIL	LED BY	
NA A	SPLIT- BARREL AUGER	ROCK CORE		1				LOG	WEBEN GED BY	L ORILLING
EXPLANATION					GRAVEL	7.7	CLAYEY SAND			RELD DE ELEVATION (FT. AMSL)
	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECOVE	RY		SILTY CLAY			EXIS	TING GRAD	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample			1	CLAYEY SILT			LOC	ATION OR (	GRID COORDINATES
	REC. Actual Length of Recovered Sample	in Feet		LULIN	21F1					

	NERN-WICKEE CORPORATION	KM SUBSIDIARY			LOCATION		. /	BORING	G ER PC-6
	Hydrology Dept S&EA Division	KMCLLC	UNIFIED	DI CIME			, NV		- FC-6
DEP1 IN FEE	LITHOLOGIC DESCRIPTION	1 1 (5)	SOIL FIELD CLASS.	PER 6"	PID (ppm)		SOIL SAM		REMARKS OR FIELD OBSERVATIONS
	- FILL: SAND AND GRAVE	L 12 75							
		70							_
5.	- SAND; SILTY SAND; GA	AVEL OF							_
	- commen TO ABD; WELL.	GRADED O							-
	- LT. TAN-BROWN; SLI. M	OIST I							_
10.	GRANTE @ 10-12'	000							
		000	SM-						
15	_		GM						_
, 3.	SAMO AS ABOVE	169							_
		· b .							_
20	_	-d 1			_				
	GRAVEL C 22-23'	000			_				_
23			<u>Z</u>		_				
25		10:							
	- SAND AS ASONE; SATURAT						Ė		_
20									_
30	- GRAVEL C. 33-34'		5m-		_				
		0000	GM						_
35	-	COA			_		Andrew Action		
	- GRAVIL C 36-37'	0000							
	_	0000 [.]							TAKEN @ 40'
40		0.0	•		RAPHIC I	06.15	GENID I	DATE DRILLED	PAGE
	<ul><li>✓ Water Table (24 Hour)</li><li>✓ Water Table (Time of Boring)</li></ul>	)			CLAY		DEBRIS FILL	3/24/9	8 1 of 2
z	PID Photoionization Detection (pp NO. Identifies Sample by Number TYPE Sample Collection Method	om)					-ILL HIGHLY DRGANIC (PEAT)		15 A
NATIC	SPLIT-	ROCK			SAND		SANDY CLAY	WEBE)	L BRILING
EXPLANATION	BARREL	CORE		1	GRAVEL		CLAYEY SAND	T. RO	SED DE ELEVATION (FT. AMSL)
	WALLED TUBE CONTINUOUS SAMPLER	NO RECOVER	RY	1	SILTY CLAY				
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered				CLAYEY SILT	LJ.		LOCATION OR	GRID COORDINATES

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA				LOCATION	1.0	, .	n /	BC NL	RING JMBER	PC-6 (ca	107
DEPTH	I			UNIFIED	BLOWS	HENDE	/LSD~	J	OIL SAM		T		
IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH		c.	REMARKS O FIELD OBSERVAT	IONS
40	SAND AS ABOVE	4	0:0	Sm- Gm									
41 -	SILTY CLAY; LT. GRAY-GR SLI. PLASTIC MUDDY CR		YY	CL									_
43-	TD 43'		1/1/		7/8/35		1		43 41,5	- 1.	3 ′		
_	113 13				3)		,		<u> </u>	,,,,			
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	Water Table (24 Hour)					RAPHIC I			10	DATE DRII		PAGE 2 of	2
	<ul><li>Water Table (Time of Boring</li><li>Photoionization Detection (pp</li></ul>	) om)				CLAY		DEBI FILL	RIS	3/z	METHO!	) 2 01	
	O. Identifies Sample by Numbe PE Sample Collection Method	r				SILT		HIGHL' ORGAI	Y NIC (PEAT)	DRILLED I	ISA BY		
ATIO	7	PC	OCK			SAND		SAN CLA	DY	W/		DRILLING	
EXPLANATION	BARREL AUGER	i co	ÖRE			GRAVEL		CLA SAN	YEY		BY		
Ä	THIN- WALLED CONTINUOUS TUBE SAMPLER	NO RE	O ECOVE	RY	1	SILTY CLAY				EXISTING	GRADE	EED (FT. AMSL	)
	EPTH Depth Top and Bottom of Sc REC. Actual Length of Recovered	ample Sample in	Feet			CLAYEY SILT				LOCATIO	N OR GR	ID COORDINATES	

	RR-McGEE CORPORATION	KM SUBSIDIARY			LOCATION			,	BORING	G A D
	drology Dept S&EA Division	KACLLC	UNIFIED	DI OMB	HENDE	LSON				R PC-7
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	SO TYPE	DEPTH		REMARKS OR FIELD OBSERVATIONS
_	FILL; SAND/GRAVEL	IN PA					f			
_	IMPOUNDMENT BERM	الروب								
_		اوکھ								
5 —	,	500								
	SILTY SAND / SAND; GRAVE	c oane			_					_
_	COMMUN TO ABD; WE	4- 06								
_	GRASES; LT. TAN-BROW	NN CAN			_					
0-	GRAVEL ZUNE 6-8,5'									_
_	( G. 01 )									
_		Ç 0				į				
		6								
5 —		0	5~-							_
_		- 1-	GM							
-		1								
_										
o —		15.4								
21 –		0   0	V		_					
_		-06								
_	SAND AS ABOUL; SATURA	TUS 0								
- 25 —		0.							·	
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		= .+			-					
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30 —		10								
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_		0								
_		0	Sm-							
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	SAMO AS ASONE	10	CW							. · · ·
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	-	0								
70		1				<u> </u>				
▼	. ,				RAPHIC I			-	3/25/0	PAGE 1 of Z
_∇ Pi	D Photoionization Detection (p	pm)			CLAY		DEBR FILL	(I)	DRILLING METH	
N	<ol><li>Identifies Sample by Number</li></ol>	er ´			SILT	$\Box$	HIGHLY ORGAN	IIC (DEAT)	HS	A
	7 cour				SAND		SANI	1		DRILLING
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE			GRAVEL		CLAY	1	LOGGED BY	UNINGNA
EX EX	THIN- CONTINUOUS	NO		1			SANI		T, R	FFS DE ELEVATION (FT. AMSL)
	WALLED SAMPLER	RECOVE	RY	182	SILTY CLAY			[		
DE	EPTH Depth Top and Bottom of S	ample			CLAYEY SILT		-		OCATION OR	GRID COORDINATES
_ L R	EC. Actual Length of Recovered	Sample in Feet								

	KE	RR-McGEE CORPORATION	KM SUBSID	IARY			LOCATION				BORIN	G , ,
	Hyc	drology Dept S&EA Division	KMC				HENDE	LSON.	NV		NUMB	ER PC-7/CONT.)
DE				呈	UNIFIED		PID		SOIL	SAMPLE	•	REMARKS OR
FE	N ET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	EPTH	REC.	FIELD OBSERVATIONS
40		SAND AS ABOUE			-	-			6			NOTE: DRILLER'S PICK_
4	2	07474g 775 77-227.0		6.0	an							ON MUDOT CREEK
'		AUGEN CUTTINGS: SILTY CLA	97; LT	77		1						TOP, BLOWING SAND
	4	MED. RES-BROWN; SLI. TO MO. PLASTIC; OCC. LT. GRAY. GRAW.	O. STAFAKS	1//	CL							INTO AUGERS PREMINTED -
45	$\dashv$	7-44-70-70-11-11-11-11-11-11-11-11-11-11-11-11-11		<u> </u>								SPLEY SPOON SAMPLING
	-	TO 45'					<u> </u>					-
İ	-						<u> </u>					DRILLERS USES FRESH _ WATER TO ATTEMPT
	-						_					TO WASH OUT AUGENS _
												FOR SPUT SPOON
	_						_					SAMPLINA; DID
	_											NOT COLLECT _
	-						<u> </u>					GROUNDWATER SAMPLE_
	-						<u> </u>					
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	<b>Y</b>	,					RAPHIC L				125/9	
	_\_\ PI[		) om)				CLAY	22	DEBRIS FILL		LING METH	- 1
z	NC TYP	<ol><li>Identifies Sample by Number</li></ol>	r ′				SILT		HIGHLY ORGANIC (PE	AT)	HSA LED BY	
5	<u> </u>	,				1	SAND		SANDY CLAY	DAIL		<b>2.</b>
Z	X	SPLIT- BARREL AUGER	R	OCK ORE						LOG	<i>NKBKN</i> GED BY	_ ORILLING
EXPLANATION	<u> </u>					1	GRAVEL		CLAYEY SAND		T, RE	550
Wi	1. 1.	WALLED CONTINUOUS SAMPLER	N R	IO ECOVER	YY.		SILTY CLAY			EXIS	TING GRAD	DE ELEVATION (FT. AMSL)
		PTH Depth Top and Bottom of Sc EC. Actual Length of Recovered		. Foot			CLAYEY SILT			LOC	ATION OR	GRID COORDINATES
Ш		- Actour teligill of Recovered		11661		<u></u>						

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIARY  KMCLLC			LOCATION HENDE	رحم	، را	NV	BORING	G ER <i>PC</i> - 8
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	£.,	UNIFIED SOIL FIELD	PER			so	IL SAMPL	.E	REMARKS OR FIELD OBSERVATIONS
- - -	SAND; SILTY SAND; GR COMMON; WELL- GRADED TAN-BROWN	AVEL (G)	CLASS.	6'		NO.	TYPE	DEPTH	REC.	
5 — - -	CRANEL ZONE @ 7-8'	010000	5m-				Partition of the second			 - -
10 <u> </u>	SAND AS ABOVE	0.	GM							
15—	GRAVEL ZONE C 13'; COLO, CHANGE TO LT. BROWN; MOI									
17 - - - 20-		-	<u> </u>							- - -
-		3								GROWDWATER -
25		000	Sm-							SAMPLE COLLECTED -
30 -							The section of the se			- - -
35 — 36 -	SILTY CLAY; REDDISH-BROWN; C	0,0					The state of the state of			- - -
37 -	TO LT. GRAY- ERHEN; U. SLI.  MUDDY CREEK  TO 37'	PLASTIC!		710 48		ı	X	37 38.5	1,2'	
<b></b>	` '				RAPHIC I				126/98	PAGE / of /
PI N	D Photoionization Detection (pp D. Identifies Sample by Numbe	pm)					HIGHLY	DRI	LLING METH	IOD
NOIT I	71. □■			ł	SILT SAND			\v	LLED BY	
EXPLANATION A	SPLIT- BARREL AUGER	ROCK CORE		2.4	GRAVEL			LO		_ DRILLING
EX	THIN- WALLED CONTINUOUS TUBE SAMPLER	NO RECOVER	RΥ	l	SILTY CLAY			L	STING GRAD	DE ELEVATION (FT. AMSL)
	EPTH Depth Top and Bottom of Sc EC. Actual Length of Recovered	mple Sample in Feet			CLAYEY SILT			LO	CATION OR G	GRID COORDINATES

JUIL DU	RING LOG KM-5655-B									<del></del>	
	KERR-McGEE CORPORATION Hydrology Dept S&EA Division ドルクーして						DERS	SON	1,NL	BORIN	
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	)N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
5-10-24-25	SAND/SILTY SAND BROWN-LT TAN II GRAVELLY WELL GR DRY  SAND/SILTY GRAVE ISCME ISRN  OCCASIONAL CORTS  SILTY CLAY TREDDISA  SLI-NON PLASTIC	LY ST)	0.	SMY GM	411.7						DRILLING W/ MOBILE B-GIHDX  8" AVCERS  TO 25'  GROUNDWATER  SAMPLE COLLECTED  AT 25'
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Borin Photoionization Detection (ID) Identifies Sample by Numb (PE Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of REC. Actual Length of Recovere-	ppm) ler  Is \[ \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ROCK CORE NO RECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAY SILTY		DEE FILL HIGH ORGA SAN	BRIS  LY ANIC (PEAT)  ROY AY  AYEY  ND		/98   1 of 1 SA

	RING LOG KM-5655-B RR-MCGEE CORPORATION	KM SUBSIDIARY		Į.	OCATION			BORIN	G Oz , i
Hyd	drology Dept S&EA Division	KMC-L			HEND	EBON	1 NV	NUMB	ER )-2-(1
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	GRAPHIC	UNIFIED SOIL FIELD CLASS.	PER	PID (ppm)		SOIL SAN		REMARKS OR FIELD OBSERVATIONS
5- 10- 25- 30- 31-5	SAND / SANDY SILT TANISH BRN DRU GRAVELLY  SECREASE SILT  INC CLAY BRU-DK B MOIST TO WELL SCICK  SAND W/ CLAY WE RROWN  SILTY CLAY GREENISH  SLI PLASTIC	V. HARD	She She She She She She She She She She						GROUNDWATER  SHUPLE COLLECTION AT  30  NO SPLIT STOON VERIFICATION OF MUDDY CREEK. NOTED MC ON AUSER FLIGHT V. HARRO DRLY 36-371/2  37.5 T/ MUDDY CREEK  TO 38!
1	, ,		•		RAPHIC			DATE DRILLED	/ \ \
EXPLANATION	Water Table (Time of Borin Photoionization Detection (plo. Identifies Sample by Numb Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of S	ROCK CORE S NO RECO			SAND GRAVEL		DEBRIS FILL HIGHLY ORGANIC (PEAT) SANDY CLAY CLAYEY SAND	DRILLING MET  DRILLED BY  USE  LOGGED BY  EXISTING GRA	

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA	uc			LOCATION HEND	ersa	<u>ں</u>	NU	BORING	FPC-13
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	М	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE SC	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
10-	SILTY SAND CT BR GRAVELLY DRY  SAND SILM ORANGICH WELL GRODEN  SILTY SAND BRN- DRY-SLI MUIST FINE-MED CR. GRA THRU OUT	BRN	المارية الماري	Sm/ Gm							GROUNDWATER - SAMILE COURTED - ATTER PULLING.
30-	SILTY CLAY GREGUISA SLI SDY	4 GRAY	000.	در							AUGERS  27.5' T/MUDDY CREET  TO Z9'  DID NOT USE  SPLIT SPOON BUE  TO FILL IN AUGER
EXPLANATION	Water Table (24 Hour)  Water Table (124 Hour)  Water Table (124 Hour)  Understand Photoionization Detection (policy of the property of the pro	ppm) er  R  C  Sample	OCK CORE NO ECOVE			GRAPHIC  CLAY  SILT  SAND  GRAVEL  SILTY  CLAY  CLAY  SILTY		DEB FILL HIGHI ORGA SAN CLA	IRIS  LY  LV  LNIC (PEAT)  C  LV  LY  LY  LY  LY  LY  LY  LY  LY  LY	XISTING GRA	/ of / HOD

	RING LOG KM-5655-B	r									
	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI				LOCATION HEND	にひく	د_۸	dil	BORIN NUMI	IG PC-14
<del></del>	arcingy Dopta - Ducht Division	117000		UNIFIED	DI OME		(C (2.5				T + C - 74
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	SO TYPE	DEPTH	T	REMARKS OR FIELD OBSERVATIONS
<u>-</u> - - -	SILTY SAND RTD BR LOUSE DRY WELL ON GRAVELS		10000	Sm							- - - - - -
- 1.0— - -	Cobbles at 10.5 Staty groupe vd by	(n	000 0000	_							- - - - -
15			0000	V							
20- - - - 25-	Bung Moist su crave	ξy	00,000								Floor returns _
27 - -	SILTY CLAY GREENISH SCI-NOW PLASTIC	GRAY	177	cı				1	······································		T/MUDDY (TREEK 27'
30-             					-						GROUNDITEIL - SOMBLE COLLECTEI BT 18'
-	Motor Table (04 Have)					GRAPHIC I	log II	GEN	ין מו	DATE DRICLE	
PI PI	` '	pm)				CLAY		DEBR FILL HIGHLY ORGAN	RIS (PEAT)	3/3/ DRILLING ME HS/A DRILLED BY WE!	/98 / of 1
EXPLANATION	SPLIT- BARREL  THIN- WALLED TUBE  SAMPLER  TUBE		ROCK CORE NO RECOVE	RY		SAND GRAVEL SILTY CLAY		CLAY CLAY SANI	rey D	LOGGED BY	CRANFORD  ADE ELEVATION (FT. AMSL)
t D	EPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample			1	CLAYEY SILT				LOCATION O	R GRID COORDINATES

20IF RO	RING LOG KM-5655-B										
	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA				HEND HEND	E CSON	) NV	/	BORING	G ER PC-15
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	ΝО.	ш	AMPLE PTH	REC.	REMARKS OR FIELD OBSERVATIONS
5 - (0	SHLY SAND TREDDISH BROWEL WY GROWEL WOREDEE GRAVEL  SAND GROWEL SILTY CLANELY DARK BROW  INC CLAY  SILTY CLAY GROYISH WA	BECOMINA -	10 10 10 10 10 10 10 10 10 10 10 10 10 1	-V_							GROWNWATER  SAMPLE COMECNED, AT 20'  BELOW Y  TO 38'
<b>J</b>	` '					RAPHIC			- 3	31 /9 (	PAGE   of
EXPLANATION	Water Table (Time of Boring Photoionization Detection (properties Sample by Number Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  TEPTH Depth Top and Bottom of Secondary of Recovered	R C R R C R R R R R R R R R R R R R R R	OCK ORE IO ECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		DEBRIS FILL HIGHLY ORGANIC (PI SANDY CLAY CLAYEY SAND	DRIL LOG	LING MET LED BY WE R GGED BY 5. GED BY 5. GED BY 5. GED BY	

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIARY KMC - U				JDET	2501	u Ni	BORING NUMBE	PC-16
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	Z GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	ш	SAMPLI DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
35	SILTY SAMD PID BOD  GRAVELS WELL GILADO  MOIST SLI CLAYEY  INC CLAY CONTENT  SAND/GRAVEL		GM		FRAPHIC				TE DIJILLIJO	GROWNWATER SAMPLE GULECTED DT ZO'  V. POOR RETURNX BLOW 25'
۹ 2	Water Table (24 Hour)  Water Table (Time of Boring Photoionization Detection (p Identifies Sample by Number Sample Collection Method	pm)			CLAY		DEBRI FILL HIGHLY ORGANIO	S DR	HILING MET HSD	8 / of 2
EXPLANATION	SPLIT- BARREL  THIN- WALLED TUBE  SAMPLER  AUGER  CONTINUOUS SAMPLER	ROCK CORE	ERY		SAND GRAVEL SILTY CLAY		SAND CLAY CLAYI SAND	EY LO	J. (	NEW FORLY) DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample in Fee	<b>!</b>		CLAYEY	` [		LC	CATION OR	GRID COORDINATES

K		A SUBSIDIARY			LOCATION		, IV.	/ BORIN	G ER 70-14
		KMC-L	LLANIEIED	lei oun		T	w Wr		EK (C-14
DEPT IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD		PID (ppm)	1	DEPTH	T	REMARKS OR FIELD OBSERVATIONS
reei				6'		110.		, REC.	
		0.0	1						]
		0.0							_
	_	0.3	1		-				
45-		30							1
	Suta Con Carala								T/MUDDY REELLY
	Silty (CDY GREENISH ( SOR to Firm Su PLAST	)RAY							15 48'
50-	211 1011100 00 1231				_				
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	-								_
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	+								-
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	_				-			-	
	_								_
	-								_
П	▼ Water Table (24 Hour)				GRAPHIC			DATE DRIVLE	98 PAGE 2 of Z
	Vater Table (Time of Boring) Photoionization Detection (pp	m)			CLAY		DEBRIS FILL	DRILLING ME	THOD
	NO. Identifies Sample by Number TYPE Sample Collection Method	··· <i>)</i>			SILT		HIGHLY ORGANIC (PEAT)	HSP DRILLED BY	}
Į.					SAND		SANDY	MER	ετι
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE			GRAVEL		CLAYEY SAND	LOGGED BY	
EXPL	THIN- CONTINUOUS	NO		1			SAND		CRAWFORT) ADE ELEVATION (FT. AMSL)
	WALLED TUBE CONTINUOUS SAMPLER	RECO	VERY	1	SILTY CLAY				
	DEPTH Depth Top and Bottom of Sa REC. Actual Length of Recovered S	mple Sample in Fe	et		CLAYEY SILT			LOCATION OF	R GRID COORDINATES

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI	ـ ـ				りそり	-50	n 20	BORIN NUMBI	G PC-20
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
20-	SILTU SAND REDISH W/ GRAVEL BRN-RD  SAND RED BRN M-CRE LOOSE DRY to SLI MA 1/4" GRAVEL SILTY  SAND BRN- GY BRN CI BCMG SLI CLAYEY  COBRLES?	13(1) 5 GR.		.∇_							- 20' POOR RETURNS -24' DRIVED HARD GRANDWATER SAMPLE COLLECTER AT 27'
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Water Table (Time of Boring D Photoionization Detection (p	pm)				CLAY		DEB FILL	RIS DRI	LLING METI	98 1 of V
		R C R	OCK ORE IO ECOVE	RY		SAND GRAVEL SILTY CLAY CLAY SILT	$\simeq$	SAN	NIC (PEAT)  DRI  IDY  Y  YEY  ID  EXI	STING GRA	3 GK.  (AWFORD  DE ELEVATION (FT. AMSL)  GRID COORDINATES

	ERR-McGEE CORPORATION ydrology Dept S&EA Division	KM SUBSIDIA		LL		LOCATION HEA	タンえん	ON K	Į√ BO	RING '	PC	مر -	0
DEPTH IN FEET	LITHOLOGIC DESCRIPTION			UNIFIED SOIL FIELD	BLOWS PER 6"	PID (ppm)	1	SOIL SAM	<del>-i</del>		RE/ FIELD C	MARKS BSERV	OR ATIONS
FEEI	SILTY CLAY GRAIGH TO OLIVE SOFT WE	GRN	0 ///	CLASS.	0		No.				/Mudb	- Greek	- 41' -
445	MED PLASTIC SICTY CLOY V. LITE FROM TO HARD LAMIN	GRAY				_					TB	43	
50-	-												
. <u>-</u>													  
_							-					*	·
-											· .		· . —
1 1	<ul><li>Water Table (24 Hour)</li><li>✓ Water Table (Time of Boring</li></ul>	٦)				CLAY		GEND DEBRIS TILL	H/L	199	}	PAGE Z	of Z
	PID Photoionization Detection (p NO. Identifies Sample by Number IYPE Sample Collection Method	pm)			0.11	SILT		IIGHLY DRGANIC (PEAT)	DRILLING	{ <u>S</u> A	٢		
EXPLANATION	SPLIT- BARREL AUGER	R	OCK ORE			SAND		SANDY CLAY CLAYEY	LOGGED	BY 1			
EXPL	THIN- WALLED TUBE  CONTINUOUS SAMPLER	5 \ \[ \big  \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ECOVE	RY	1	GRAVEL SILTY CLAY		CLAYEY SAND	EXISTING	GRADE	2AUF	ON (FT. AN	ISL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	iample Sample ii	n Feet			CLAYEY SILT		· · · · · ·	LOCATIO	N OR GR	ND COOR	DINATES	

	BORING LOG KM-5655-B										
	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	M SUBSIDIA		<u> </u>		LOCATION HEND	٨٥٤س٨	<i>ا</i> را	N	BORING	
DEP1 IN FEE	LITHOLOGIC DESCRIPTION	1	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	SOI	L SAMP	REC.	REMARKS OR FIELD OBSERVATIONS
1	ASPHALT (ROAD GRAVEL		<i>₹</i> %					Ž.			
•	SAND; SILTY SAND; GRAVEL  SLI, MOST; LT. TAN-BROW  WELL-GRADED	COMMUN; IN;	00								-
<i>-</i> 5 -	- CARVEL ZONE C 6'							e i			-
			Ö			_					- -
10 -			000	SM-		<del></del>					- - -
	SAND AS MEANS		1								- - -
15.	<del>-</del>		o q								- - - 
20	5 AND AS ABOVE; SATURAGE	 Es	00000	V _							COULD NOT OSTAIN_ FINAGH WATER — FOR SAMPLE —
25	_		1 0 0 4 4 40								
28.	SILTY CLAY ! REDDISH - TAN', SL!	PLASTIC	1/1	CL			1	X	27 28.5	1,2'	
	TO 28.5		,								
	_		-								
	1			<u> </u>	<u> </u>		<u></u>			ATE DRILLED	PAGE
	▼ Water Table (24 Hour)					RAPHIC				4/14/9	1 , ,
	Vater Table (Time of Boring) PID Photoionization Detection (pp NO. Identifies Sample by Number TYPE Sample Collection Method	m)				CLAY		HIGHLY	C (DEAT)	RILLING METH	
EXPLANATION	SPLIT- BARREL  AUGER		OCK ORE			SAND		SANI CLAY	DY L	RILLED BY  WEB  OGGED BY	EL DRIG.
EXPL	THIN- WALLED TUBE  CONTINUOUS SAMPLER		IO ECOVE	RY	1	GRAVEL SILTY CLAY		CLAY SANI	1		REEL) DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sa REC. Actual Length of Recovered	mple Sample in	Feet			CLAYEY SILT				OCATION OR	GRID COORDINATES

OUL	BORING LOG KM-5655-B									
	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY  KM CLLC			LOCATION HENDEN	رسه	NV		BORING NUMBE	GR PC-23
DEP1 IN FEE	LITHOLOGIC DESCRIPTION	GR.		BLOWS PER 6"	PID (ppm)	NO.	шТ	EPTH	REC.	REMARKS OR FIELD OBSERVATIONS
1	ASPHALT / RUAD GRAVEL	143	}							
	- SAND; SILTY SAND; GRAVEL - WELL-GRADED; SLI, MOIS - LT, MEDISI)-BROWN TO TO BROWN	7 0.0	? ? ?							
5.	- GRAVEL ZONE & 4-5'	0.5.	5m-							
10 -		0.00	,				1			
15		000	9							
	- GRAVEL C 16-17'	Era					The state of the s			
20 27		- 0								
25	-									COLLEGED @
29 30	SILTY/SAMP CLAY; REDOISH-	TAN'				1		0	1.4'	_
	ΤΔ 30'						/\ 3	1,5	1,4	
										- - - -
T	▼ Water Table (24 Hour)			G	RAPHIC I	OG LE	GEND		E DRILLED	PAGE
	✓ Water Table (Time of Boring) PID Photoionization Detection (pp Identifies Sample by Number TYPE Sample Collection Method	om)			CLAY		DEBRIS FILL HIGHLY ORGANIC (PI	DRIL	1/14/9. LING METH HS	HOD
EXPLANATION	SPLIT- BARREL AUGER	ROCK			SAND GRAVEL		SANDY CLAY CLAYEY SAND	LOG	WE/3	eer Orig.
E	THIN-WALLED TUBE CONTINUOUS SAMPLER  DEPTH Depth Top and Bottom of Sa	NO RECOV		i	SILTY CLAY CLAYEY SILT			-		CEED DE ELEVATION (FT. AMSL) GRID COORDINATES
	REC. Actual Length of Recovered	Sample in Feet			· · · · · · · · · · · · · · · · · · ·					

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIA				LOCATION	EN-ON		. /	BORIN	G ER PC-25
DEP				UNIFIED	BLOWS		2000		OIL SAM		
IN FEE	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH		REMARKS OR FIELD OBSERVATIONS
1	ASPHALT ! ROAD GLAVEL							1			_
	- SAND; SILTY SAND; LT. PO	- נוצום כש	[0]								_
	- BROWN; GRAVEL COMMEN	is WEW	$\frac{1}{\sqrt{2}}$					Si de la constitución de la cons			-
S.	GRADED; SLI, MUST		v.J.								
			j: '								_
			1,1	5m							
	_	ľ		,							-
10.	SAND AS ABOVE		ju Lal								
			$[\cdot]$								
	-		10					1			
15			$j \mid_{\mathcal{L}}$								
			10								_
			1 -1	$\nabla$							-
			- 6								-
20			0.1			_		1			COULD NOT
2,	SILTY CLAY; LT. RESOSH -	BRUW;	///								WATER FOR SAMPLE
	SLI. PLASTIC MUDDY CRE	EEK	$\Lambda/_{\lambda}$	CL						*	_
25			7,7					*			_
3	- TO 25'						1	X	25 265	1,51	_
	-										-
						<del></del>					. —
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	4										-
-	-										_
	]					_					_
H	✓ Water Table (24 Hour)				G	RAPHIC I	LOG LE	GEN	ND	DATE DRILLED	PAGE
	√ Water Table (Time of Boring)	)				CLAY		DEBI	RIS	4/14/9 DRILLING MET	g / of /
z	PID Photoionization Detection (pp NO. Identifies Sample by Number TYPE Sample Collection Method	om)							Y NIC (DEAT)		SA
4T0	M <sub>CDUT</sub>					SAND				1116	EL DRIG.
EXPLANATION	SPLIT- BARREL AUGER		OCK ORE		1	GRAVEL			T T	LOGGED BY	
EXP	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RE	O COVE	RY	1	SILTY CLAY		JA14	1	EXISTING GRA	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sa REC. Actual Length of Recovered S	لا_ا mple			i	CLAYEY SILT				LOCATION OR	GRID COORDINATES
1. 1					1				- 1		

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY	<i>C</i> .		LOCATION	(4.6(1.1	• /	BORIN	
DEP				BLOWS	HEND	אנטבענ	SOIL SA	1	
FEE	I LITHOLOGIC DESCRIPTIO	GRAPHIC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	DEP.	<u>I</u>	REMARKS OR FIELD OBSERVATIONS
<i>-</i> 5	- SAND; SILTY SAND; LT. TA BROWN; GRAVEL COMMON SLI! MOIST; WELL-GRASH	w- 0.	5						- - - - - - - - - -
15			0 0000						
20	SAND AS ABOVE; SATURATA		0 0 0 0 0 0 0						GROUNDWATER  SAMPLE COLLECTED  C 28'
36 35	REDOISH - BRUWN; MOD. PL	LASTIC;	CL			1	29,5	181	
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Boring Photoionization Detection (p) NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of Science Continuous Sample Collection Method	PM) r  ROCK CORE  NO RECO			CLAY SILT SAND GRAVEL SILTY CLAYEY SILT		GEND DEBRIS FILL HIGHLY ORGANIC (PEAT) SANDY CLAY CLAYEY SAND	LOGGED BY	98 1 of 1
	REC. Actual Length of Recovered	Sample in Fee	et 						

	SORING LOG KM-5655-B EERR-McGEE CORPORATION	KM SUBSIDIA				LOCATION				BORIN	G 0: 22
H	lydrology Dept S&EA Division	KMC	LLC			HENDE	LSO <sub>A</sub>			NUMBI	ER PC-27
DEPTI	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			OIL SAM	T	REMARKS OR FIELD OBSERVATIONS
FEET	•			CLASS.	6,	(ppm)	NO.	TYPE	DEPTH	f REC.	FIELD OBSERVATIONS
1	ASPHALT/RUAD GRAVEL		€[¥								-
	SAND/SILTY SAND: TAN-	BROWN	10								
	GRAVEL COMMON; WELL- GI	VANKD;									_
5 -	sul moist		op.								_
			1.								
	+		50	sn-							-
10 -	- GRAVEL 20NE @ 10-11	/	0000	GM							_
'' -			000								_
	+		10								-
			6								
15-	_		00			<u> </u>					-
											-
			1	_V_		_		N) 44 CA			
	- SAND AS ABOVE, SATURAT	40	06								
20-			-	Sm-							
	_		10	GM							_
			47			-					_
25-			- 6								
	-		4-1			_					_
28			1.0								
	PLASTIC AMONY CIRC		X	CL							_
30 -	7	rk.	7.7			<del>                                     </del>	+		30	115	
	TD 30'						<del>  '</del>	u	31,5	, // 3	
						-					_
.											
	-					_					_
											_
											_
<b>H</b>	▼ Water Table (24 Hour)		<u></u>		(	RAPHIC	LOG II	EGE	ND I	DATE DRILLED	PAGE
1 1	<ul><li>✓ Water Table (24 Hour)</li><li>✓ Water Table (Time of Boring</li></ul>	1)				CLAY				4/16/	98 / of /
	PID Photoionization Detection (PNO. Identifies Sample by Number	pm)					$\sim$	HIGHL	LY		ISA
	TYPE Sample Collection Method				1 1111	SILT	$\simeq$	ORGA	NIC (PEAT)	DRILLED BY	,
NAT	SPLIT- BARREL AUGER	R	OCK ORE		1	SAND		SAN	ſ	LOGGED BY	BEL DRIG.
EXPLANATION	BARREL	الله الم	JIL			GRAVEL	7.3	CLA SAN	AD (AEA		REED
<u>@</u>	THIN- WALLED TUBE  CONTINUOUS SAMPLER	N R	IO ECOVE	RY	B	SILTY CLAY					DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sor REC. Actual Length of Recovered	ample			1	CLAYEY SILT				LOCATION OR	GRID COORDINATES
Ш	Action religit of Recovered										

ŀ	ERR-McGEE CORPORATION lydrology Dept S&EA Division	KM SUBSIDIARY	,		LOCATION HENDE	nson,	NV		BORING	, R PC-29
DEPT IN	H LITHOLOGIC DESCRIPTIO	1 + (2)	UNIFIED SOIL	BLOWS PER	PID		SOIL	SAMPLE		REMARKS OR
FEET	ETHOLOGIC DESCRIPTIO	GRA LC	FIELD CLASS.	6"	(ppm)	NO.	1 Y P.E.	DEPTH	REC.	FIELD OBSERVATIONS
1	ASPHALT / RUAD GRAVEL	163								_
- ک	SAND / SILTY SAND: GRADED  COMMON; WELL-GRADED  BROWN; SLI, MOIST	1 .								- - - - -
10 -			SM.							- - - - -
15.		0	V							
20.	SAND AS ABOVE; MUST TO	0	Sn-			1		20,	1,5'	
30		0	GM							GROUNDWATER - SAMPLE COLLECTED - @ 301
34	SUTUL AND ALL ALL ALL		CL					34, <b>√</b>		- - -
35	PLASTIC MUDDY CREEK					2		36′	1,2	; - -
T	▼ Water Table (24 Hour)				GRAPHIC			<del>-</del>	TE DRILLED	PAGE / of /
NC N	V Water Table (Time of Borin Photoionization Detection (p NO. Identifies Sample by Numb Sample Collection Method	opm)		ı	CLAY		HIGHLY ORGANI	C (PEAT)	4/16/9 ILLING METH HS P ILLED BY	
EXPLANATION	SPLIT- BARREL AUGER	ROCK			SAND			EY LO	GGED BY	er drig.
	THIN- WALLED TUBE  CONTINUOU SAMPLER	S NO RECOVE	RY	12	SILTY			EX	ISTING GRAD	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered				CLAYEY			LC	OCATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	GIDIARY ^- U			LOCATION HENS	res	on No	BORIN NUMB	G PC - 30
DEP1	тн	RAPHIC	UNIFIED				SOIL SA	MPLE	REMARKS OR
IN FEE	LITHOLOGIC DESCRIPTION	GRAP	FIELD CLASS.	PER 6"	(ppm)	NO.	H DEPT	H REC.	FIELD OBSERVATIONS
	AGHAIT ROAN GRAVEL	1356							_
	- SILTY SAWY - GRAVERY	9.1	SM						_
	TON BROWN DRY	) \$							
5	- WELL GRADER		GM						_
ĺ		1: :							
	_	ان: ﴿							_
١٧	-	. 1 :							_
Ø.		أرزا							
	_	11:0			_				_
	1	7			_				_
15	- SULTY SHUN ISBOURD MOIS	t 1:1:							
	Cosoces	-0.1							
					_				_
20	- SICY SAND GRY BIZN GLOWELS	.  - :							
	- SICY SAND GRY BIRN GLOVELS	0, 0			_				_
		( ) t	1						
	CORNES	000	1 0						_
25		10	Gar						
	Carnes	000							WATER SAMPLE
		.0.							COLLECTED AT -
30	SAND/GRAVER GRAY 130N WER	د واه							30'
	GRADEN SILTY LITTLE CLAY	ه ار	2						_
		0							_
35									
>>	-	D .0							_
	- 37.5' MUDDY PREEL - BILLY CLAY TO BRN SOFT WE	1.0.1	:-						T) 42' -
,_	- 3144 CLAY 1917 1912 3017 W		cc		-				SPLIT SPOON AT 42' -
40	▼ Water Table (24 Hour)	1//	<u> </u>		RAPHIC	LOG LE	GEND	DATE DRILLED	)   0   1
	✓ Water Table (Time of Boring)				CLAY		DEBRIS FILL	4/20/48	HOD of /
Z	PID Photoionization Detection (ppm) NO. Identifies Sample by Number TYPE Sample Collection Method			1	SILT	$\sim$	HIGHLY ORGANIC (PEAT)	TEA DRILLED BY	
ATIC	SPLIT-	ROCK			SAND		SANDY CLAY	WERE	L
EXPLANATION	BARREL AUGER	CORE			GRAVEL		CLAYEY SAND	LOGGED BY	JEXI)
X	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RECOVE	RY		SILTY CLAY				DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample	e in Feet			CLAYEY SILT			LOCATION OR	GRID COORDINATES

	nn-Micage Confonation	M SUBSIDIARY KMC- LL(			HEND HEND	EUSO	N	NV	BORIN	GER PC-32
EPTH IN FEET	LITHOLOGIC DESCRIPTION	1 + (2)	UNIFIED SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	TYPE TYPE	OIL SAM		REMARKS OR FIELD OBSERVATIONS
	ASRHAUT + RUAN GRAVEL	75,67	CLASS.				-			
5 <del>-</del>	SAND SIETY RO BRN W	1 000	SM Em							
o —										
K <del>-</del> - - -	SAM W/ GRAVEL BRN MOIST	_	<i>₹</i> _							-19' (4AZ) -
20-	SAND & GRAVEL GRAY TO OFF WHITE HIGHLY INDUIT "FANGLOMERATE"									DRICK HARD FROM -  A to 24'  SCI HYDROCARBON  ODORS
    	- GRANGLY CLAY GRAY GRAY - W/ TAN +6 ISTOUN STREE - FIRM, HARD DIZY to	AKS	CL				X			SOD AT 27 to -
35-	SAND & GRAVEL BRU ETZOBO	WELL 0	Sun			2	- Part	- м -		
1	Water Table (24 Hour)			- 0	RAPHIC	LOG LE	EGEI	ND	DATE DRILLE	
N	ID Photoionization Detection (ppr O. Identifies Sample by Number PE Sample Collection Method  SPLIT- BARREL  THIN- WALLED  CONTINUOUS SAMPLED	ROCK CORE NO RECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY		DEB FILL HIGHL' ORGA SAN CLA CLA	Y NIC (PEAT) IDY Y	DRILLING ME  HSA  DRILLED BY  WER  LOGGED BY	THOD
	EPTH Depth Top and Bottom of Sar REC. Actual Length of Recovered S	mple		1	CLAYEY SILT				LOCATION O	R GRID COORDINATES

KERR-McGEE CORPORATION Hydrology Dept S&EA Division					LOCATION HAVE	) EUS QX	<del></del>	NU	BORING NUMBER 2-32		
DEPT	4			UNIFIED			30 000		IL SAMPL	Ε	REMARKS OR
FEET	LITHOLOGIC DESCRIPTIO	N. S	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	- Silty Clay GRN-946	5 N -	N.	CC							T/Morrage - 40.5 -
	OFF WHITE DRY-MO	ust [	1/1					X			TO 43 -
45	FIRM-HARD BOMG , SANDY SOFT-FIRM	su									
						<u> </u>					
						_					
23-											
	_										_
						_					- -
-	-										AZDUWDWATER -
	7	-									SAMPLE GUECTER
-						_					
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	1										- -
											_
П	Water Table (24 Hour)					GRAPHIC			1	TE DRILLED	78 PAGE 2 of 2
Z	Vater Table (Time of Boring PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method	opm)			1	CLAY			Y NIC (DEAT)	RILLING METO	- 1
EXPLANATION	SPLIT- BARREL AUGER	RC	OCK ORE			SAND			IDY	١.	EL
XPLA					i	GRAVEL		CLA SAN	YEY	J. C	Raw FORE)
اسا	WALLED TUBE CONTINUOUS	S NO RE	COVE	RY	1	SILTY			EX	ISTING GRA	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	Sample I Sample in	Feet			CLAYEY				OCATION OR	GRID COORDINATES

ı	KERR-McGEE CORPORATION KM SUBSID KM SUBSID KM SUBSID KM SUBSID KM SUBSID		, ,		LOCATION HEND	ENK	), S	NI	BORIN	G PC-33
DEPT			UNIFIED					IL SAMPL		
FEE		GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	ASHALT & COAD GRAVER	7,2%								_
	SILTY SAND RO BROWN	17					100			
_	- ers-v crs, graves	-  .					The state of			
5-	DRY	0	Sm							
		1	Gu							
		ر ق								
10-	4	. 0								
		۱۰۰					ı			
	_	1.					ı			GROUNWATER -
15	- SAND BROWN GRAVER - BOMG GLI CLAYEY	- 0								Sample College
	Brub GU CLAYEY	6	$\nabla$							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		.0								
	_	0 8								, , -
20.	72.32	6.6	-							21 Thusby areal
	SILTY CLAY RD BRN WET FIRM WI HATED CLASTS	1/1	CC				The state of	*****		_
	Brocky									to 231
25.										
	_									_
										-
30	_				_					_
	-									-
35										
'										
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										-
	▼ Water Table (24 Hour)				RAPHIC L			1 1	TE DRILLED	- 1 . ! 1
	✓ Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number				CLAY			1	HSA	нор ,
NO NO	TYPE Sample Collection Method								ILLEQ BY	
EXPLANATION		OCK CORE			SAND		SAN CLA	LO	GGED-BY/	SEK
XPLA					GRAVEL		CLA'		ا) مر	Westers)
"	WALLED   CONTINUOUS	SECOAE 40	RY	1	SILTY CLAY				STING GRA	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample i	n Feet			CLAYEY SILT			LO	CATION OR	GRID COORDINATES

	KM SUBS Lydrology Dept S&EA Division	DIARY			LOCATION -(E)	€NSC	N	NV	BORING	GER PC-34
DEPT IN			UNIFIED SOIL FIELD	BLOWS	<del>*</del>		SOIL	SAMPLE	E	REMARKS OR
FEET	A THIOLOGIC DESCRIPTION	၂ ပ	FIELD CLASS.	6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
5-10-15-20-25	SILTY SAND WY GRAVEL REDIGIA BRU LOOSE WELL CRADEN DRY  SILTY SAND WY GRAVEL BRU-TAN MOIST  CLAY (2) BRU FIRM-HRD SILTY IP FEW HARD CLOSTS  BLOCKY	6. 6	Su En							TIMON CLECK -
$\prod$	▼ Water Table (24 Hour)			G	RAPHIC L				E PRILLED	PAGE
	<ul> <li>✓ Water Table (Time of Boring)</li> <li>PID Photoionization Detection (ppm)</li> <li>NO. Identifies Sample by Number</li> <li>YPE Sample Collection Method</li> </ul>						PRGANIC (P	PEAT) DRIL	LING METH	
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE		}	SAND GRAVEL		SANDY CLAY CLAYEY SAND	LOG	NEGED BY	ZAWFORN
EX	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECOVE	RY		SILTY CLAY				STING GRAD	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample	in Feet			CLAYEY SILT			LOC	CATION OR	GRID COORDINATES

	RR-McGEE CORPORATION drology Dept S&EA Division	uc		LOCATION HEN	DER	250	V11, W	JV BORING PC-35		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD	BLOWS PER 6'	PID (ppm)	NO.	Z SO	IL SAMPLE	REC.	REMARKS OR FIELD OBSERVATIONS
	ASPHOLT of ROAD GROVE		CLASS. §े<्३				F			
5	SILTY SAWS WY GRA	ر ا . ا . ا . ا . ا . ا .	1.							- - - - - - - - - -
	GRAVEL WY SAWO WELL GRADED SLI A				——————————————————————————————————————					- - - - - - - - -
30-35-	SANDY SILT V. LIT GRAY V. SOFT Homogen. OCC. TR SMALL GRAVEL		r. O. M.							TOP OF SILT BASED ON EXAM OF AUGER FLICHTS UPON REMOVAL FROM BOREHOLE POOR RETURNS WHILE DRILLING
40 -						7 ; 2		use of the first term of the f	7	en en traction de
EXPLANATION  ALZ SHAPE S	Water Table (Time of Boring D Photoionization Detection (p) D. Identifies Sample by Numbe	POM)  ROCK CORE  NO RECO	VERY		SILT SAND GRAVEL		DEBR FILL HIGHLY DRGANI SANE CLAY	IS DRILLI C (PEAT) DRILLI DY LOGG EXIST	TING GRAD	IOD

	KEINI-MOGEE CONFORATION	M SUBSIDIARY KM L - U.C.			LOCATION HEND G	T Sa	V	NV	BORING PC-35		
DEP			UNIFIED SOIL FIELD	BLOWS	PID			IL SAM	PLE	REMARKS OR	
FEE	ET	GRAPHIC	FIELD CLASS.	6.	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
45							8			Poor RETURNS-	
	] SANDY SILT AAR									-	
	VERY SOFT		ML							SAMPLES FROM - AUGER FLIGHTS -	
50	) <del> </del>   									-	
55										T/ MUDDY CREEK	
	- SILTY CLAY RED BROW	SO W	CL						-	58'	
60	STIFF V. SLI PLASTI	c 77.7					X				
	024									77 60'	
			At a	-				ertidi. Saar			
			. 33, 1			233) 1 222	्	e di je Negotin Negotin			
			Tuesthy h								
	▼ Water Table (24 Hour)			G	RAPHIC L				DATE DRILLEI		
	V Water Table (Time of Boring) PID Photoionization Detection (ppn	n)						IS C	7/20 DRILLING ME	THOD	
NO.	NO. Identifies Sample by Number Sample Collection Method	te. To type				$\simeq$			ORILLED BY	EBER	
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE	1 (4) 1 (4)		SAND GRAVEL			- 1	OGGED BY	(RAWFORLY)	
EXP	THIN- WALLED CONTINUOUS SAMPLER	NO RECOVER	Y				3AN[			ADE ELEVATION (FT. AMSL)	
	DEPTH Depth Top and Bottom of Sam REC. Actual Length of Recovered Sc	LLU nple ∷ market			CLAYEY SILT				LOCATION OF	R GRID COORDINATES	

	COLL BORING LOG KM-5655-B  KERR MCCES CORPORATION KM SUBSIDIARY LOCATION ROPING									
	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C C					erso	n. NV	BORING NUMBER PC 36		
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	Z	UNIFIEI SOIL FIELD CLASS	BLOWS PER 6"	PID (ppm)	NO.	SOIL SAM		REMARKS OR FIELD OBSERVATIONS	
5 _	5AND, gravelly, f-m 0-12.5' mod yell brn ( f-m sd (w/minor c-vc) o minor gravel (10-20% o 11/4"). Dry. Contains 511+. Minor colliche ce	(104R5/4)	5. SW/						- - - - - -	
-  0  12 5	@12.5 damp	,f-m ω/c-VC	GW GW	1					wet@151	
15 -	12.5-15' 15-20% 14"-1/2"  and 25-30% 5,H.  SAND, 5, 11, mod ye  5A-SR, 30% 5,11, no  f-m W/c grained	u brn,	SW							
25 — 27 - 30.5	SAND, mod yell brn, w/m, compact, w/z	-0%	5P/ 5N	1			Zq-3	0 100	Water sample - taken when hole 30'deep	
35-	SANT, Silty, grave f-m b/C-VC and 10-1 1/4" gravel. 25-30%. S Minor celiche cemen	5 %	51	1					- - - - - -	
	` '	pm)			CLAY		DEBRIS FILL HIGHLY	DATE DRILLED 4 - Z1 - DRILLING MET	98 1 of Z	
EXPLANATION AT A TAX A T	SPLIT- BARREL  THIN- WALLED TUBE  EPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ROC COR	OVERY		SAND GRAVEL SILTY CLAY CLAYEY SILT		ORGANIC (PEAT) SANDY CLAY CLAY SAND	LOGGED BY  EXISTING GRA	Jeber Jeber J. Krish DE ELEVATION (FT. AMSL) GRID COORDINATES	

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	M SUBSIDIARY			LOCATION Hende	2450V	1. NV	BORIN NUMB	G ER PC 36
DEP1			UNIFIED				SOIL SAI		
IN FEE	LITHOLOGIC DESCRIPTION	GRAPHIC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	DEP1		REMARKS OR FIELD OBSERVATIONS
4	1	1.1	'5 M						
-,	- SILT, slightly clayer	j ,							_
	- Hbrn (54R6/4) W/	minor	ML					-	_
45	- 10% rfg sd								
-	TD @ 45				_				_
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П	▼ Water Table (24 Hour)		1		RAPHIC			DATE DRILLED	_
	Water Table (Time of Boring) PID Photoionization Detection (pp	) vm)			CLAY		DEBRIS FILL	4-27-	
z	PID Photoionization Detection (pp NO. Identifies Sample by Number TYPE Sample Collection Method				SILT		HIGHLY ORGANIC (PEAT)	A U O	)er
ATIO	M SDUT	ROCK			SAND		SANDY CLAY	ı	Veber
EXPLANATION	BARREL	CORE			GRAVEL		CLAYEY SAND	LOGGED BY	.J. Krish
<del>ŭ</del>	THIN- WALLED CONTINUOUS SAMPLER	NO RECOVE	ERY	1	SILTY CLAY				DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered	mple Sample in Feet			CLAYEY SILT			LOCATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIAR		•		LOCATION	leas	n , NV	BORI	
DEP				UNIFIED	BLOWS			SOIL SAM	NPLE	
FEE	LITHOLOGIC DESCRIPTION	N S	LOG	SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.	DEPTH		REMARKS OR FIELD OBSERVATIONS
5 10 15 20 25 30 35	sd and grav as ab	brn of provided in the source of the source		SW						DAMP @ 33
			. o			12 Tab				MONT-WET @40'
H	▼ Water Table (24 Hour)				G	RAPHIC	LOG LE	GEND	DATE DRILL	ED PAGE
	∀     Water Table (Time of Boring)	a) (				CLAY		DEBRIS FILL	4-27 DRILLING M	
z	PID Photoionization Detection (p NO. Identifies Sample by Numb TYPE Sample Collection Method	er .				SILT		HIGHLY ORGANIC (PEAT)	DRILLED BY	AUGER
ATIO	SPLIT-	RO	CK			SAND		SANDY CLAY	i	NEBER
EXPLANATION	BARREL	co	RE			GRAVEL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CLAYEY SAND	LOGGED BY	
ă	THIN- WALLED TUBE  CONTINUOUS SAMPLER	S NO	COVE	RY		SILTY				RADE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	Sample I Sample in I	Feet			CLAYEY			LOCATION	OR GRID COORDINATES

KE Hyd	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI				LOCATION HEND	ERS	o N	i , NV	/	FR PC 38	
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	Ю.		DEPTH	IPLE	REC.	REMARKS OR FIELD OBSERVATIONS
45-	SAND, 511ty, mod brn, w/ 30% 511t 10-1570 granules (1/6	ω/		SM								T/mc 46'-
-	SILT, 14 brn, w/ clay, moist. tr-sp vfggd(5%)	minor.										water sample
50 <u> </u>	w/ minor gypsum			ML		· 						taken when - hole @ 47'
55 <u> </u>								X	54-5	5	100%	_ <b>_</b>
-	TD @55											
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	Water Table (24 Hour)		1	<u> </u>	G	RAPHIC L			10		DRILLED	PAGE Z of Z
PII NO TYI	D Photoionization Detection (p) D. Identifies Sample by Numbe	om)				CLAY		HIGHL	1	DRILLI		' 0
EXPLANATION STATEMENT STAT	SPLIT-BARREL AUGER	Re C	OCK ORE		1 000	SAND GRAVEL		SAN CLA CLA SAN	YEY	LOGGE		EBER J. Krish
DE	THIN- WALLED TUBE  EPTH Depth Top and Bottom of So EC. Actual Length of Recovered	ample	O ECOVEI	RY	1	SILTY CLAY CLAYEY SILT						DE ELEVATION (FT AMSL)

	BORING LOG KM-5655-B KERR-MCGEE CORPORATION	KM SUBSIDIARY			LOCATION				BORING		
	Hydrology Dept S&EA Division	KMCLL			HEND	62501	U, N1	J	NUMBE	ER PC-39	
DEPT	н	E	UNIFIED SOIL FIELD	BLOWS	PID			SAMPLE		REMARKS OR	
IN FEET	LITHOLOGIC DESCRIPTIO	Z GRAPHIC LOG	FIELD CLASS.	6°	(ppm)	NO.	TYPE	EPTH	REC.	FIELD OBSERVATIONS	
	- SAND/SILTY SAND; LT.										
	- BROWN; OCC, GRAVEL;									<u> </u>	
	- MOIST; WELL-GRASKS									_	
<b>S</b> -							Ü				
7											
	-	1   k	)							_	
			SM								
10 -	SAND AS ABOUT GRAVE	090									
	20me @ 10'				_					_	
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40		. 0	1							-	
	▼ Water Table (24 Hour)	4			RAPHIC				E DRILLED	PAGE 1 of 2	
	<ul><li>✓ Water Table (Time of Boring</li><li>PID Photoionization Detection (p)</li></ul>	) >m)			CLAY		DEBRIS FILL	DRIL	/27/9 LING MET	8   1 of 2	
	NO. Identifies Sample by Number TYPE Sample Collection Method	r r				$\Box$	HIGHLY ORGANIC (I	PEAT)	175	9	
EXPLANATION	TTI Sample Collection Method			100000			SANDY CLAY	DRIL	LED BY	0016	
ANA	SPLIT- BARREL AUGER	ROCK CORE						LOG	GED BY	er DRIG.	
XPL	THIN-			1	GRAVEL		CLAYEY SAND		7,7		
"	WALLED CONTINUOUS SAMPLER	NO RECOVE	RY		SILTY CLAY			EXIS	ING GRAI	DE ELEVATION (FT. AMSL)	
	DEPTH Depth Top and Bottom of So	ample			CLAYEY SILT			LOC	ATION OR	GRID COORDINATES	
	REC. Actual Length of Recovered	Sample in Feet									

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY			LOCATION 145N	DEA LA	20)	. N.)	BORING	ir PC-39
DEP				BLOWS				L SAMP	PLE	
FEE	I LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
40	- SAND AS MBOVE	,,,0								
	- 15 15000	0	5~							
44	_	. 0			_					_
45	SILTY CLAY V CLI PLACTIC' I		CL							
46	,	Sicreje 1	+					46	1.5	
İ	- TO 46'					<del>                                     </del>		47.5	1, 3	
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	■ Water Table (24 Hour)				GRAPHIC				Alinia	
	<ul><li>✓ Water Table (Time of Boring PID Photoionization Detection (p</li></ul>	pm)			CLAY		DEBR FILL	1	4/27/9 DRILLING METH	HOD
Ž	NO. Identifies Sample by Number TYPE Sample Collection Method	er			SILT	$\cong$	HIGHLY ORGANI	IC (PEAT)	PRILLED BY	'S PA
EXPLANATION	SPLIT-	ROCK			SAND		SANE CLAY	PΥ	WE	BEN DRIG.
IAN	BARREL AUGER	CORE		1	GRAVEL		CLAY SANE	EY L	OGGED BY	
EX	THIN- WALLED SAMPLER CONTINUOUS	S NO RECOV	ERY	1	SILTY			E	ZISTING GRAI	RED DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample			CLAYEY SILT				OCATION OR	GRID COORDINATES

KE	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA				LOCATION	enson	, رر	w	BORING	FR PC-41
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	PER	PID (ppm)	NO.	YPE YPE	IL SAMPL	REC.	REMARKS OR FIELD OBSERVATIONS
S	SAND; SILTY SAND; LT. BROWN; GRAVEL COMMO WELL-GRADED; SLI. MO	ORANGE - N.; ST	95	SM	6'		NO.		<b>ДЕРТН</b>	REC.	coutons -
28 30 35 37.5	SANDY SILT; LT. TAN- OCC. GRAVEL; PUODLY: ON SATURATED  SILTY CLAY; LT. MODISH- TAN PLASTIL MUODY CA	v; v. su!		ML			1		2.6 27. \$	1.2'	unter Sample  @ 26'
39 -	TO 39'						1		39.5		
EXPLANATION	Water Table (Time of Boring Photoionization Detection (p O. Identifies Sample by Number	pm) RCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	OCK ORE O CCOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		DEBR FILL	DRI  DRI  DRI  DRI  CY  CY  CY  D  EXI	T, /	

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIARY	CC.		LOCATION HENT	>E 72.5	M, 400	1	BORING	
DEPTH		일	UNIFIED		PID		SOIL SA	MPLE		REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTIO	62	SOIL FIELD	PER 6"	(ppm)	NO.	DEP	тн	REC.	FIELD OBSERVATIONS
FEET   -   -   -   -   -   -   -   -   -	SAND, gravelly, 1  (5YR 6/4) = poorly 5  SA-SR, f-VC W/Z  1/4-3/4" gravel. Wi caliche cement +  out  0'-41' sparse site  (5-10%)	torn of the order	CLASS.		(ppm)	NO.	DEP	TH .	REC.	HELD OBSERVATIONS
30_	31-41' Calichefie Sand and gravel Uniling, poor ret		0.0			Artes Artes La Carrio Artes A			and and and and and and and and and and	31-41 hard drilling-sample off augerflites
T	Water Table (24 Hour)	<u> </u>	1		GRAPHIC	LOG LE	GEND	4	DRILLED	PAGE
EXPLANATION AT AT A A A A A A A A A A A A A A A A A	in the second of the second of the second of the second of the second of the second of the second of the second	Pm) er  ROCI CORE	C E DVERY		SILT  SAND  GRAVEL  SILTY  CLAY  SILTY		DEBRIS FILL HIGHLY ORGANIC (PEAT SANDY CLAY CLAYEY SAND	DRILL	GED BY	-98 1 of Z HOD  NUCER  VEBER  J KYISH DE ELEVATION (FT AMSL)  GRID COORDINATES

	BORING LOG KM-5655-B  ERR-McGEE CORPORATION KM SUBSILIVATION IARY M C			LOCATION HENT	ER:	50N,	<b>V</b>	BORIN NUMBI	G PC 4Z	
DEPT IN FEE	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	SOIL S	<b>AMPLE</b> PTH	REC.	REMARKS OR FIELD OBSERVATIONS
45-	SAND, SILTY, brngry  (54R4/1), SILTY (25%)  W/ MINOR VC-granules  (10-25%),  Sand grains SR-SA, f-m  W/C   53-57 mod oran pink  (54R8/4), 30-40% SILT in  VF-fg sd w/ spotty weak  caliche coment	00.00.00.00.00.00.00.00.00.00.00.00.00.	<i>ร</i> ีฟ				54.	<u>5-55</u>	JQE	wet @ 41' \\
60	SILT, yell gry (5y8/1) & V  Pale orange (10yr 8/2). Slight clay (10%). Tr Feox after py  TD Auger @ 60'  TD Split Spoon @ 61'	+ 1	ML				60-	61	100	- - - - - -
	Water Table (24 Hour)  ✓ Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT- BARREL  AUGER  THIN- WALLED TUBE  CONTINUOUS SAMPLER  DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample	ROCK CORE NO RECOVE	en de la companya de		SILT SAND GRAVEL SILTY CLAY		GEND  DEBRIS FILL  HIGHLY  ORGANIC (PEA  SANDY  CLAY  CLAY  SAND	DRILL LOG	GED BY  . TING GRA	-98 Z of Z

	RR-McGEE CORPORATION	KM SUBSIDIARY			LOCATION			BORIN		2
	drology Dept S&EA Division	KMCL	LINIELE	V =		ENSON		NUMBI	TRIL T	<i>&gt;</i>
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	SKAPHIC	SOIL FIELD CLASS	PER 6"	PID (ppm)	1	SOIL SAM		REMARKS FIELD OBSERV	OR ATIONS
- - - - - - - - - - - - - - - - - - -	GRAVEL / COBBLES / SAND; YELLOW-BROWN; WELL SAND / SILTY SAND; ABD. GRAN TAN-BROWN; WELL-GRAND GRAVEL/ COBBLES / SAND	(1). 8. 00 (6)	CLASS OO O O O O O O O O O O O O O O O O O O			i				-
16 -	SAND; SILTY SAND; ABD.	GRAVEL P	5M						CRAVEL ZI VERT HAR DRILLIN	.0 -
25-	GRAVEL/ COBSIRS  SAND; SILTY SAND; ABD.  LT. GRAY-BRUNN; SATUR	anney of	00 GA							
35—	GRAVEL/COBBUS AS AS	out: C	000 000 000 000 000 000 000 000	_					:	- - - - - -
Y	Water Table (24 Hour)			-	GRAPHIC			DATE DRILLED	١.	of 7
EXPLANATIO	Photoionization Detection (p) Identifies Sample by Number Sample Collection Method  SPLIT- BARREL  THIN- WALLED TUBE  EPTH Depth Top and Bottom of S	ROC COR	OVERY		CLAY SILT SAND GRAVEL SILTY CLAY SILT	S	DEBRIS ILL IGHLY RGANIC (PEAT) ANDY CLAY CLAYEY AND	LOGGED BY	HOD	
Ď	THIN- WALLED SAMPLER	NO RECO	OVERY	B	SILTY		LIAYEY SAND	EXISTING GRA	DE ELEVATION	

	ERR-McGEE CORPORATION lydrology Dept S&EA Division	KM SUBSIDIARY  KMCLLC	<u> </u>		LOCATION HENOL	uson,	NV	BORIN NUMB	IG ER <i>PC - 43</i>
DEPT	4	<del></del>	UNIFIED		PID	9	OIL SAM	APLE	REMARKS OR
IN FEE1	LITHOLOGIC DESCRIPTION	GRAPHIC	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	DEPT	H REC.	FIELD OBSERVATIONS
	GRAVELS/COBBLES AS	000	)						
,.	_ BSWL	0,0 880 860	an						_
43	TO 43'	000		ļ					NOTE! DRIVE CAP-
45-	10 73				<u> </u>				FRACTURES FROM
	-				<u> </u>				HARD DRILLINA; -
	-								HULL ABANDUNED -
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<b>F</b>				1 6	RAPHIC	IOG IEG	END	DATE DRILLED	) PAGE
1 1	<ul><li>■ Water Table (24 Hour)</li><li>□ Water Table (Time of Boring</li></ul>	~\			CLAY	DI DI		4/29/	98 2 of 2
	PID Photoionization Detection (p	pm)		1				DRILLING MET	
	NO. Identifies Sample by Number TYPE Sample Collection Method	÷1		Ш	SILT		GHLY GANIC (PEAT)	DRILLED BY	SA
ATIC	SPLIT-	ROCK			SAND	S/ CI	ANDY LAY	WEB	EN ORLG.
EXPLANATION	BARREL AUGER	CORE				C S			
X	THIN- WALLED CONTINUOUS	S NO		1		3 <i>/</i>	טויה		RED ADE ELEVATION (FT. AMSL)
	TUBE CONTINUOUS	RECOVE	RY	1	SILTY	<u>_</u> _			
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample in Feet			CLAYEY SILT			LOCATION OF	R GRID COORDINATES
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	(ERR-McGEE CORPORATION lydrology Dept S&EA Division	KM SUBSIDIARY KMCLL	, ,		LOCATION  LIENDE	תבסהל	) NV	BORING	G ER PC-44
DEPT	T	10	UNIFIED	BLOWS		·	SOIL SAM	APLE	
IN FEE	LITHOLOGIC DESCRIPTION	OR GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	ł	DEPTH		REMARKS OR FIELD OBSERVATIONS
5 - 10 - 12.4 15 -	- GRAVEL / COBBLES / SAND;  LT. TAN-YELLOW TO LT.  BROWN; WELL-GRASED  - SAND/SILTY SAND W/ ABD GR. LT. GRAY-BROWN; WELL-GRASE  GRAVEL/COBBLES/SAND	ORY; 800 TAN- 0:6 0:6 0:6 0:6 0:6 0:6 0:6 0:6	GM SM						VERY HARD -  DRILLING IN -  COGBLES -
20 -	- COBBLES/GRAVEL/SAMD 1 ABOVE	A. J. L. T. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SM	-					- - - - - - - -
30	SAND/SILTY SAND W/COMM ABD. CHAVEL; LT. YKUG MUIST TU SATURATED	11 1							WATER SAMPLE _ CULLECTES C 30' -
П	▼ Water Table (24 Hour)				RAPHIC I			A/29/	
	Water Table (Time of Boring Photoionization Detection (p NO. Identifies Sample by Number Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ROCK CORE  NO RECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT	⊠ s	GHLY RGANIC (PEAT)	DRILLING METH  H S  DRILLED BY  LOGGED BY  EXISTING GRA	HOD

	ERR-McGEE CORPORATION	KM SUBSIDIARY				LOCATION				BORING	<del></del>		,	$\exists$
	lydrology Dept S&EA Division	KMCL				HEND	ENSO-	ررر	NV_	NUMBE	R PC	- 4	7	
DEPT	H LITHOLOGIC DESCRIPTIO	N H	901	UNIFIED SOIL FIELD	BLOWS PER	PID			IL SAMI	PLE	RE	MARKS	OR	
FEET	LITHOLOGIC DESCRIPTIO	7 00	걸	FIELD CLASS.	6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD C	BSERV	ATION	S
40			ņ	51				2						
41	SILTY CLAY! LT. PROPUSH	TAN,	1	CL										_
	SLI! PLASTIC MUDDI CA	riek "	77						43					
	+							A	43 44,5	0.9				-
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1 1	▼ Water Table (24 Hour)					GRAPHIC I	-		<u> </u>		i	PAGE 2	of 2	_
	<ul><li>✓ Water Table (Time of Boring Photoionization Detection (p)</li></ul>	pm)				CLAY				4/29/	10D			
	NO. Identifies Sample by Number TYPE Sample Collection Method	er				SILT	$\sim$	HIGHL' ORGA	Y NIC (PEAT)	H.	SA			
15	·					SAND		SAN	IDA		Sa na	16.		
AN	SPLIT- BARREL AUGER	ROC	CK RE		1	GRAVEL		CLA	Ti Ti	WEB/ LOGGED BY	7 C J.	<u> </u>		
EXPLANATION	THIN-				1			SAN	1	て, EXISTING GRAI	REES) DE ELEVATION	ON (FT. AF	MSL)	
"	WALLED CONTINUOUS SAMPLER	NO REC	OVE	RY	1	SILTY			ľ					
	DEPTH Depth Top and Bottom of S	ample, _				CLAYEY SILT				LOCATION OR	GRID COOR	DINATES		
	REC. Actual Length of Recovered	Sample in F	eet											

	nn-wickee Confonation	BSIDIARY	-		LOCATION HEN	つら	20	۷, ۷۷	BORING NUMBE	s R PC 45
DEPTH			UNIFIED	BLOWS				IL SAMPLE	T	
IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC 10G	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
10 — 15 — 25 — 25 — 25 — 25 — 25 — 25 — 25	GRAVEL, Sandy, 1+b (5YR 6/4). 50-60% 1/4"- Z" SR-SA gravel and 5 40% f-Vc sand. Spars SII+ (5-10%). Weak caliche cement  10-20' smaller diam gravel 1/4"-5/8"  ZO-30' gravel 1/4"-7/8	000000000000000000000000000000000000000								
- - - -	28-29' bit eating baselt boulder	0.0	)			A sec				moist-wet @_
35-	SAND, locally silty,  Modyell brn (1048 5/4) a  Slightly sity (10%) layer  alt/w sity (30%) layers  sand grains are f-c w/  minor vc-granules  SAND. gravelly, modye  brn, SA-SR, f-Vc sd w/ 20-	11 (00	5M					31-32 35-36 38-5-79	75	
EXPLANATION TAX	Water Table (24 Hour)	ROCK CORE NO RECOV	ERY		SAND GRAVEL SILTY CLAY SILTY CLAYEY SILT		DEB FILL HIGHL	RIS ORII Y NIC (PEAT) ORI DRI ADY Y LOC EXI	WE GGED BY E.	7-98 1 of Z

	KE	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI	ARY			LOCATION	ERS	No	, NV	BORIN NUMB	
DEP		HTHOLOGIC DECOUNTS		J S	UNIFIED	BLOWS PER			sc	IL SAM	PLE	REMARKS OR
FEE	T	LITHOLOGIC DESCRIPTIO	)N	GRAPHIC 10G	SOIL FIELD CLASS.	6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	-	Pea gravel (1/4"-3/8")		.0.0	SW					٠		_
43				0.0.	- JW			•				WATER SAMPLE
1		SILT, slightly claye	۲ <sub>2</sub> .		ML							TAKEN WHEN -
45		1+ brn (54R 6/4)		11111					X	45-45	.5 100	HOLE AT TO
	-	TD Auger 45' TD splitspoon 45.5					<u> </u>					-
		TD splitspoon 45.5	to a second									<u></u>
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	-						Tip of	4 .		J. Villa		
H			6 · *	<u> </u>		1 6	GRAPHIC	log II	FGFI	ND I	DATE DRILLED	) PAGE
	Y V	· ·	a)				CLAY		DEB FILL		4-28/ZEDRILLING MET	
z	PI NO TY	<ul><li>D Photoionization Detection (p</li><li>D. Identifies Sample by Number</li></ul>	pm)			1	SILT			Υ		GER
ATIO	<u></u>	SPUT-	nn.	OCK			SAND		SAN CLA	1DY	u	JEBER
EXPLANATION	Z	BARREL		OCK CORE			GRAVEL		CLA SAN	AEA		.J. KRISH
100		THIN- WALLED TUBE  CONTINUOUS SAMPLER		SECONE 40	RY	1	SILTY			-0.50	EXISTING GRA	DE ELEVATION (FT. AMSL)
		EPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample i	n Feet			CLAYEY SILT		1 <u>-</u>		LOCATION OR	GRID COORDINATES

ŀ	(ERR-McGEE CORPORATION	KM SUBSIDIARY			LOCATION			BORIN	G A 41
	Hydrology Dept S&EA Division	KNCLLI				4NSON	1, NV	NUMB	ER PC-46
DEPT IN	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD	PER	PID (ppm)		SOIL SA		REMARKS OR FIELD OBSERVATIONS
FEET				6"	(44,)	NO.	J DEP1	TH REC.	TIED OBSERVATIONS
	_ COABLES/GRANE/SAND; L								-
	_ GRADED; LT. YELLOW-TAN	J' ARY OO	$\mathcal{O}$						-
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	_	0	0						_
10 -		00	2						
		00	Q Q						_
13	SAMO-SILTY SAMO GRAVEL	camer; 1	04:	-					_
15-	- LT. YELLOW-BROWN; SLI, M	סין	Sn						
	- GRANG / COBBUS/SAND; L	T. 7AN- 01	) an		_				_
	BROWN; SLI! MOIST	_ (6	0 7	_					_
			30						_
20-	SAND/ SILTY SAND AS ASONE	00	0	-					
22	TO SATURATION OF	311	7 50						_
	- COBBLES / GRAVE U/SAND	AS O	20		_				_
25.	- ABOUE	Ø	0 50						_
[2]		Oc	8						
27		OC m	) () E ()	-					_
	- SAND/SILTY SAND AS A	BOVE,	5[						
30.	LT. TAN-BROWN; SATU	natao :			_				_
			0		_				_
		0	5/5/						_
	-	- 1	[2] ; ]		-				-
35			9						
	4	0:							_
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		0	0						
	▼ Water Table (24 Hour)				GRAPHIC			DATE DRILLED	ł
	V Water Table (Time of Boring PID Photoionization Detection (p	pm)		i	CLAY		DEBRIS FILL	DRILLING MET	HOD
	NO. Identifies Sample by Number TYPE Sample Collection Method	er			SILT	$\cong$	HIGHLY ORGANIC (PEAT)	DRILLED BY	-JSA
ATIC	SPUT-	ROCK			SAND		SANDY CLAY	W	EBEN DRIG.
EXPLANATION	BARREL	CORE			GRAVEL		CLAYEY SAND	LOGGED BY	REED
EX	THIN- WALLED SAMPLER CONTINUOUS SAMPLER	NO RECO	VERY	l l	SILTY			EXISTING GRA	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S			i	CLAYEY			LOCATION OR	GRID COORDINATES
Ш	REC. Actual Length of Recovered	Sample in Fe	et	1	JILI			<u> </u>	

JOIL 1	ONING LOG VIVI-2022-D										
	ERR-McGEE CORPORATION ydrology Dept S&EA Division	KM SUBSIDIARY KMCL	LC	,		LOCATION HEN	)KNS0	(۱۸	, w	BORING NUMBE	G R PC-46
					RI OME					DIE I	, ,
DEPTI IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC	90 0	NIFIED SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	<del></del>	REMARKS OR FIELD OBSERVATIONS
40		1:	4	5~							COLLECTED WATER _
42		(d) 12	0.1								SAMPLE @ 38'
	Brown ; SLI PLASTIC: MUCH	resours -	M	CL							_
	1 State of 3 to poins IT. Made	7 aug					1	X	43 44,5	115	-
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1 1	▼ Water Table (24 Hour)					RAPHIC I				DATE DRILLED	PAGE 2 of 2
	<ul><li>✓ Water Table (Time of Boring Photoionization Detection (pp.)</li></ul>	) )				CLAY		DEB FILL	KIS	4/29/C	10D
1 1	NO. Identifies Sample by Number	r,				SIIT		HIGHL	y NIC (PEAT)	/	45A
EXPLANATION	TYPE Sample Collection Method				l				- 1	DRILLED BY	_
NA1	SPLIT-	ROCK	(		1	SAND		SAN CLA	Ī	LOGGED BY	EBER DRLC.
PLA	BARREL	CORE	•			GRAVEL		CLA SAN	YEY		0660
X	THIN- WALLED THE SAMPLER CONTINUOUS SAMPLER	NO RECC	)VEDV		1	SILTY CLAY				EXISTING GRAD	REED DE ELEVATION (FT. AMSL)
	TUBE		V LK I		1					LOCATION OP	GRID COORDINATES
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered	ımple Sample in Fe	et		GIA	CLAYEY SILT				_SCATION OR	55 5551151176125

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIA				LOCATION HEN	DERS	ا, له	W	BORING	
DEPT				UNIFIED SOIL		PID		SOIL SA			REMARKS OR
FEE	LITHOLOGIC DESCRIPTIO	N	GRAF LO	FIELD CLASS.	PER 6'	(ppm)	NO.	DEP	тн	REC.	FIELD OBSERVATIONS
	- GRAVEL, sandy,	1+ brn	0.0								
	(54R 614), 50-60% 1	4"-2"	.00			_					. –
	] gravel with f-VC Sa	nd.	9.								-
4	Sparse 10% 511+.		000								-
	- Variable caliche cem	ent	0								-
	-		0.00								-
	-	1	~~			<del></del>					-
10.			000	GP							
`	- 11'-15' pea gravel 1 - few larger cobbles.	~/ V.	0.0.								· -
	- few larger cobbles.		000								_
			مو								_
16.			0.0								
	15-21' hard, slow di	rilling	0								_
	in strongly calicheti	<del>L</del> A	0,0			<u> </u>					-
	- gravel.		00-								_
			0.0								
21			100	ļ	ļ		ļ	6			@z'damp-Moist
	- SAND, SIHY, 97	r				_					_
	- oran pink (5YR7/z).										_
25	f-m sd w/25-30%	511+.	1:}								
100	Minor C-VC grains		1:1:			<u>_</u>	1.				WATER SAMPLE -
											TAKEN WHEN -
		•		5M		-					HOLE COMPLETED -
30	1		1-1.	31	1						_
1			.			<u> </u>		eu.			_
			]- ].			-					_
			].}			-					_
35			$ \cdot \cdot $								TD Auger @40' _ TD Split Spoon -
1				,							TD Split Spoon -
			: :	•		-					@ 41' -
38	SILT, SI. clayey (10%	.), v.	litti	1			-				split spoon 40-41'
	Pale oran & Hbrn, minor	gypsum	ЩШ	ML							10% REC.
	▼ Water Table (24 Hour)					RAPHIC				- 30 -	PAGE 1 of 1
	V Water Table (Time of Boring Photoionization Detection (p	nm)				CLAY		DEBRIS FILL		LING METH	10 1
	NO. Identifies Sample by Number TYPE Sample Collection Method	r				SILT		HIGHLY ORGANIC (PEAT)			SER
15	Sumple Concention Memod							SANDY CLAY	DRIL	LED BY	BER
EXPLANATION	SPLIT- BARREL AUGER	RC	ORE			SAND GRAVEL		CLAY CLAYEY SAND	LOG	GED BY	,
EXP	THIN- WALLED TABLE THE SAMPLER  CONTINUOUS SAMPLER		O ECOVE	a : RY .	1	SILTY CLAY		JANU	EXIS		J. KRISH DE ELEVATION (FT. AMSL)
	TOBE .				1	CLAYEY			LOC	ATION OR	GRID COORDINATES
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered	Sample in	Feet		ULL IN	SILI				194 j. 1	

	CERR-McGEE CORPORATION	KM SUBSIDI				LOCATION		1		BORING	B DC AD
	Hydrology Dept S&EA Division	KIV	<u> </u>				ERS	0 N , NV		NUMBE	R PC 48
DEP1	H LITHOLOGIC DESCRIPTION	N	APHIC LOG	UNIFIED SOIL	BLOWS PER	PID	· · · · · · · · · · · · · · · · · · ·	SOIL SAM	—т		REMARKS OR
FEE			5	FIELD CLASS.	6,	(ppm)	NO.	DEPTH	1	REC.	FIELD OBSERVATIONS
	- GRAVEL, Sandy, n	nod	,0,,								
	- yell brn (104R5/4),	SA-SR	000								_
	= 1/4"- 2" gravel w/40"		0,0			_			-		_
5.	sand. Sparse 5-10	2 silt.	00.								-
. ح	-0-10' Minor caliche		0.00								
	- cement	<del></del>	9.0.								
	-		1.00	GP		<u> </u>					_
			00.0			<u> </u>					_
10.	_10'-ZZ' hard, slow		0 0		<u> </u>						
			0.0		V						_
	drilling in strongly calichefied pea gran	, و (	0.0		ER	<u>_</u>					_
1./	(1/4"-5/8"). V. pale ora	nge	9		Ÿ	_		Section 1			_
1)5	(10 YR 8/2) w/ 20% f-		0.		.,,						-
		C 710	0. 0.		Н						
			0.00		A						_
	-		0.0		R						-
20	·		000		V	_					· <del></del>
22			0.30							$\nabla$	Jamp-moist@zz'
166	- SAND, silty, gry o	range	11-1								_
ر ا	pink (5YR7/z). Con		111								· <u>-</u>
25	25-30% silt in vf-1					-					
	C-vc sd + minorgr	- (	117			-					_
			1.1.1	-01							
			1.1.1	SM		-					-
30				1		<del></del> .:					
			111				2				TD Auger 40'
			1.1.1				117				TD Split Spoon -
			1:1:		1	<u></u>	133.33				@41'
135			1:1:			-					wam ng nin ni ka 🛨
			11.1		-					1, 1	splitspoon -
3	SILT, slightly claye	4 (5%)	11111		<del>  -</del>	T 64 10					40-411,100%
	_mod brn (5 YR 5/4) w	tr.	'	ML						-	REC
-	(5%) vf sd		ЩШ		+-	20 4 81 11 6	100.15	CENC	DATE	DRILLED	PAGE
	▼ Water Table (24 Hour)			and the		GRAPHIC	1.	2011		-30-	1
	V Water Table (Time of Borin PID Photoionization Detection (p					CLAY		DEBRIS FILL	DRILL	ING METH	HOD
	NO. Identifies Sample by Numb TYPE Sample Collection Method		•			SILT	$\Box$	HIGHLY ORGANIC (PEAT)		AUGE ED BY	ER
ē						· '		SANDY CLAY		WEB	ER
EXPLANATION	SPLIT- BARREL AUGER		ROCK CORE							GED BY	
PLA					:::	GRAVEL		CLAYEY SAND			T. KRISH
<u>@</u>	THIN- WALLED SAMPLER THEF	5	NO RECOVE	RY	1	SILTY		1 g 1	EXIST	TING GRA	DE ELEVATION (FT. AMSL)
	1000				. 1	CLAYEY		ا المام عدم الراسيات المام عدم الرامي ال	LOCA	ATION OR	GRID COORDINATES
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	l Sample i	n Feet		1 0777	SILT				\$ 5 kg (	

	RR-McGEE CORPORATION drology Dept S&EA Division	SUBSIDIARY KMCLL			LOCATION HENCE	رن ي	ںہ رہ	1	BORING	G ER PC-49
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	шТ	EPTH	REC.	REMARKS OR FIELD OBSERVATIONS
1 _	ASPHALT / ROAD GRAVEL									_
, _	SAND; SILTY SAND; LT. YEL	10W-100	2							
	Bravis; GRAVEL COMPAN;						Ä			_
   5 —	GRADED	0					K			_
5 —		1.0								
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-										_
10_		O'a	15,0							_
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-		110	<b>,</b>							-
-		ي   ا	/3		_					_
15_	1	9-								_
_	50.005		1							
-	SAMA AS ABOVE; LT. TAN- BROWN	-   [.J.	<u>-                                    </u>		<u> </u> -					_
-	_ ·3/cw,/		.			ĺ				_
20-	]	φ.								
-	_	100								_
-	1	6								_
-	1	11.1	),							_
25-	]	10-0	]]							
-	4		-							WATER SAMPLE _
-	-	7			-					COURCIED E ZZ' _
-		11	0							·
30 —	SAND AS ABOUT LT. CAAT-	BRN: 0				ļ				
-	SATURATED	00	, .				3	30 1.5	111	_
-		iol			<del> </del>		5			-
			أأم							
35-	_		$\left\{ \left\{ \right\} \right\}$		<u></u>					
-			0		_					_
38 -		01	1							_
	SILTY CLAY; LT. PREDOISH-TAI	12 Jr				İ				_
40	SLI'. PLASTIC MUDOT CREET	K N	CL					Inat	E DRILLED	PAGE
	·				RAPHIC				430/9	
	1D Photoionization Detection (ppm)	)		1	CLAY		DEBRIS FILL	DRI	LLING MET	HOD
	O. Identifies Sample by Number  (PE Sample Collection Method	•			SILT	$\cong$	HIGHLY ORGANIC (P	EAT) DRI	H,	s A
15 6					SAND		SANDY CLAY			en orig.
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE		2000				LOG	GGED BY	al valy.
× P.	THIN- CONTINUOUS			1	GRAVEL		CLAYEY SAND	- 1		REED
<b>"</b>	WALLED CONTINUOUS SAMPLER	NO RECOV	ERY		SILTY CLAY			EXI	STING GRA	DE ELEVATION (FT. AMSL)
D	DEPTH Depth Top and Bottom of Samp REC. Actual Length of Recovered Sam	كا ple mple in Fee	t		CLAYEY SILT			_ LO	CATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION	KM SUBSIDIARY  KMULC			LOCATION				BORING	G R PC-49
	Hydrology Dept S&EA Division			Dorono		OENSO.			<u> </u>	:R / L - 79
DEP1 IN FEE	LITHOLOGIC DESCRIPTION	Z GRAPHIC	SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	TYPE TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
40		5	CLASS	. 6"		<b>1</b>	${}$	40		
70	TO 40'				<u> </u>	2	X	41,5	1,5'	
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H	▼ Water Table (24 Hour)				GRAPHIC	LOG LE	GE	ND DA	TE DRILLED	PAGE
	∀     Water Table (Time of Boring)	a)			CLAY		DEB FILL	RIS	4/30/	
Z	PID Photoionization Detection (p) NO. Identifies Sample by Number Sample Collection Method	pm) er			SILT			LY	HS F	)
ATIC	SPLIT-	ROCI	<		SAND		SAN CLA	YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY	WEB	en DRIC.
EXPLANATION	BARREL AUGER	COR	Ė		GRAVEL		CLA SAN	YEY LO	GGED BY	
EXI	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECO	OVERY	- 1	SILTY				T.R	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample in Fe	eet		CLAYEY SILT			LO	OCATION OR	GRID COORDINATES

KE	DRING LOG KM-5655-B	KM SUBSIDIA				LOCATION				BORING NUMBER PC-SI		
	drology Dept S&EA Division	KMC			T	HENDE	-MS01			1	K PC-31	
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO		GRAPH LOG	UNIFIED SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
1 -	ASPHALT / ROAD GRAVEL		194			-		Ac.			_	
- -	SAND/SILTY SAND; ABO. ( LT. TAN-BROWN; WELL-	1	00									
5 <del>-</del> - -	SAND AS ABOVE; LT. GR	AT-7AN	0000	SM- GM								
10 <u> </u>			0,00	$\nabla$							<u>-</u> - -	
- 15— -	SAND AS ABOUT CRAVEL ?	-0~E	0000									
- - 20-	C 16-18 °		000								- - - -	
-			0.	SM- GM							- - -	
25— - - - 30—			0 0								WATER SAMPLE COLLECTED @ 25'	
33 -	SILTY CLAY; LT. TAN; SLI! P	LASTIC	90	CL							- - -	
35-	TO 35'	nos k					1	X	35 36,5	1,5		
-											-	
	_					RAPHIC			<b>"</b> /	TE DRILLED  130/9 LLING METH	PAGE / of /	
N	<ul> <li>Water Table (Time of Boring</li> <li>Photoionization Detection (p</li> <li>Identifies Sample by Number</li> <li>Sample Collection Method</li> </ul>	pm)				CLAY SILT		HIGHLY	Y NIC (DEAT)	LLING METH		
EXPLANATION ST	SPLIT- BARREL AUGER		OCK ORE		1	SAND GRAVEL		SAN CLA CLA SAN	IDY Y	WEB GGED BY	REED	
D	THIN-WALLED SAMPLER SAMPLER  EPTH Depth Top and Bottom of Source REC. Actual Length of Recovered	RE ample	O ECOVEI	RY		SILTY CLAY CLAYEY SILT				STING GRAD	GRID COORDINATES	

	RING LOG KM-5655-B	KM SUBSIDI	ARY			LOCATION				<del></del>	PODIA!	
	Hydrology Dept S&EA Division CO					4(200	ERSO	N	27		BORING NUMBE	RPC-52
DEPTH					BLOWS		Ī		OIL SAN	APIF	-/	
IN	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	PER	PID (ppm)			-			REMARKS OR FIELD OBSERVATIONS
FEET	,		O	CLASS.	6,	(17	NO.	TYPE	DEPT	н	REC.	
_	51174 So. D. J. CO.		126-									
_	sicy sour or go	AUEC	0									
	USTEP (7372 UAT 71)		- 0.	SM/								_
,	WELL GRADED DRY		1	_ ′								_
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10-			16			<u> </u>						_
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15-			6									
` -			7/6									_
-	-		À -			_						_
	JAWO/GROVEL DATE	K BRN	1:									(Da) =
20-	CLAYEY moust BCH		u .							l		TRUST -
_	WEX	~4										WATER
			. 5									SAUCRE
_	SAND COS-VCOS DI	ב ואתט	1.									COLLECTED -
		.,		Sm		-						At 20' -
J?\	TR GRAVEL		010									-
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30-			· i			-						
-	_					-						_
-	-		٠.									33 T/ MUDDY -
33 -	SILTY CLAY LA GRAY TO	OFF	101	CL								(DEELL
_	WHITE LAM SOFT tO F	irun						X				·
-		. •				_						TO 341' -
-	·					_				İ		-
-								1.				_
												_
T	Water Table (24 Hour)				G	RAPHIC	OG LE	GEI	ND		DRILLED	PAGE
	Water Table (Time of Boring					CLAY		DEB	RIS	DRILLI	/ 4 /	(58 / of <b>/</b>
PI	<ol> <li>Identifies Sample by Number</li> </ol>	pm) r			1		$\sim$	HIGHL	Y		SA	
1 1							$\simeq$	ORGA	NIC (PEAT)	DRILLI	ED BY	
I V	SPLIT-		OCK			SAND		SAN CLA	Y Y		)EBE	
EXPLANATION	BARREL		ORE							LOGG		20.165
X   ■	THIN-	$\overline{\Box}$ .	10			GRAVEL	[5:7]	SAN	1D		_	LAWFOID) DE ELEVATION (FT. AMSL)
	WALLED CONTINUOUS SAMPLER		IO ECOVEI	RY	183	SILTY CLAY				CVIDII	NG GRAL	DE ELEVATION (FT. AMSL)
DF		لـــا ample			1213	CLAYEY SILT				LOCA	TION OR	GRID COORDINATES
	EC. Actual Length of Recovered	Sample in	Feet		I TIN	SILI	′EY					
<del></del>	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet									<u> </u>		

	KERR-McGEE CORPORATION	KM SUBSIDIA	ARY			LOCATION				T	BORING	`
	lydrology Dept S&EA Division	KMC	LLC			HENDA	NSON	) ]	W_		NUMBE	R PC-57
DEPT	н		S F S	UNIFIED SOIL		PID		so	IL SAM	\PLE		REMARKS OR
FEET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	FIELD CLASS.	PER 6"	(ppm)	NO.	гүре	DEPTH	4	REC.	FIELD OBSERVATIONS
	BERM MATERIAL: SAND W	//	1/61	OLASS.								-
2	CROUKL											4
	- SAND WISHT; MED. TA							an area			ļ	-
5.	- Brown; sci. roist; occ.	GRAVEL	12,0									
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			~ ~     1 ' K					and a				]
15-	_		1.0									-
	- AC OCOM: RECOUNT	4.60										-
	- AND AS MOVE, SECONDA	ERE.										_
	- SAND AS AGOVE, BECOMME - BROWN (LOOKS LIKE COFF - CROWNS): OCC. CRAME	_	2.									_
20 -			1.7									
			1 6					li.				
	-		7-:			_						
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36			1,5					27100	7			
ľ	4		0.			-						
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35	SAND AS ADOVE; SATURATA	<u>-</u> 9	0		-		+		35			
	-		- 12			<u> </u>	+'-	A	36.5		1.1	_ _
			or,									_
			10									_
H	▼ Water Table (24 Hour)			<u> </u>		RAPHIC	rog ri	GEI	ND		DRILLED	PAGE
	✓ Water Table (Time of Boring)	g)				CLAY		DEB FILL	RIS	5/2	0/98 ING METH	1 of 2
Z	PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method								Y NIC (PEAT)		HS.	
ATIC	SPLIT-	<b>1</b>	OCK			SAND		SAN CLA	IDY Y		WESE	L DRIG.
EXPLANATION	BARREL AUGER	C	OCK		1	GRAVEL		CLA		LOGG		
EX	THIN- WALLED CONTINUOUS	s \\	10	<b>5</b>	1	SILTY CLAY	لحت	JAI		EXIST	ING GRAD	RHS) DE ELEVATION (FT. AMSL)
	TUBE	<u>L_</u> Y	ECOVE	кҮ	1					1.00:	TION OF	GRID COORDINATES
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	iample I Sample in	n Feet			CLAYEY SILT				1		EAST OF PC-56

DEPTH LITHOLOGIC DESCRIPTION  SO SO SOL SAMPLE  REAL FIELD OB!  SOL SAMPLE  REAL FIELD OB!  RE	- 57	; ir <i>PC-S</i>	BORING NUMBE		vV	,,	rso.	LOCATION HENDE			ماير	KM SUBSIDIA	ALION	ORPORATI - S&EA Divis		
45  GRANCL 10-L D 42-45  GRANCL 10-L D 42-45  GRANCL 10-L D 42-45  SS S S S S S S S S S S S S S S S S S	ARKS OR	REMARK		<b>APLE</b>		so			BLOWS	UNIFIED	OH OH OH					
GRAVEL ZONE Q 42-45'  GRAVEL ZONE Q 42-45'  GRAVEL ZONE Q 42-45'  SO SON  SON	BSERVATIONS	FIELD OBSER	REC.	н	DEPTI	TYPE	NO.	(ppm)	6. 6.	FIELD CLASS.	GRAFIO	)N	DESCRIPTIO	OLOGIC DE	LITHO	FEET
GRAVEL 2016 Q 42-45'  SO  SO  SO  SO  SO  SO  SO  SO  SO  S	_										,					10
TA S3'  Water Table (24 Hour)	-										200	,	4- 4-			4
SO  SI  CLAY KY CIG-SILTY CLAY, LT. GREAT  TA S3'  Water Table (24 Hour)  Water Table (24 Hour)  Water Table (14 Hour)  Water Table (15 H	_			-		(Bac)				GM		•	42-45	2026 6	RAVEL L	1
SO  SI CLAMAY CITY SICTY CHAY LT. CHAY  TAN , SLI PLASTIC MADY  CMEK  TO 53'  Water Table (24 Hour)  V Water Table (11 me of Boring)  Photoionization Detection (ppm)  NO. Identifies Somple by Number  REAPHIC LOG LEGEND  CLAY  PAGE DEBRIS  SI 1,5'  DATE DEBRIS  SI 1,5'  DATE DEBRIS  SI 1,5'  DATE DEBRIS  SI 1,5'  TA 53'  TA 53'  TA 53'  TA 53'  TA 53'  TA 53'  TA 54'  TA 54'  TA 53'  TA 54'  TA 54'  TA 55'  TA 5	_					-					0.0					5_
SO  SI CLAMAY CITY SICTY CHAY LT. CHAY  TAN , SLI PLASTIC MADY  CMEK  TO 53'  Water Table (24 Hour)  V Water Table (11 me of Boring)  Photoionization Detection (ppm)  NO. Identifies Somple by Number  REAPHIC LOG LEGEND  CLAY  PAGE DEBRIS  SI 1,5'  DATE DEBRIS  SI 1,5'  DATE DEBRIS  SI 1,5'  DATE DEBRIS  SI 1,5'  TA 53'  TA 53'  TA 53'  TA 53'  TA 53'  TA 53'  TA 54'  TA 54'  TA 53'  TA 54'  TA 54'  TA 55'  TA 5	_										, , 9					$\exists$
S2  CLANGEY SILT - SILTY CLAY, LT. GUENT  TAN ; SLI. PLASTIC MURALY  CLAY  TA S3'  Water Table (24 Hour)  V. Water Table (11 me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  PLASA  DATE DRILLED  ST. J. S'  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  FILL  ST. J. PLASTIC  DATE DRILLED  FILL  ST. J. PLASTIC  DEBRIS  DEBLING METHOD  HIS A  DEBLING METHOD  HIS A	-							_		5~	P .					4
S2  CLANGEY SILT - SILTY CLAY, LT. GUENT  TAN ; SLI. PLASTIC MURALY  CLAY  TA S3'  Water Table (24 Hour)  V. Water Table (11 me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  PLASA  DATE DRILLED  ST. J. S'  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  ST. J. PLASTIC  DATE DRILLED  FILL  ST. J. PLASTIC  DATE DRILLED  FILL  ST. J. PLASTIC  DEBRIS  DEBLING METHOD  HIS A  DEBLING METHOD  HIS A	_															
S2 S2 S2 S2 S2 S4 S4 S4 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5					SI											,0 —
Water Table (24 Hour)  Water Table (27 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (17 Hour)  Water Table (18 Hour)			1,5	-		X.	<u>Z</u>			CL-ML	WN.	GNENT-	CLAY LT	4-5)LTY C	LAYRY CILT	52
Water Table (24 Hour)  ✓ Water Table (17 Hours)  ✓ Water Table (17 Hours)  ✓ Water Table (17 Hours)  Figure 19 June 1	_					-					N X IV	Y /	16 MUDDY	Li. PLASTIC	TAN; SLI	53 +
▼ Water Table (24 Hour)  ▼ Water Table (11me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number													CAUSER	<del></del>		
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	-												3′	D 53	$\mathcal{T}_{A}$	
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	-															4
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG																
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	-															4
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	 -															
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	-															
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/10/98  DEBRIS FILL  DRILLING METHOD																-
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	-															
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG																-
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG																
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	-							-								
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG																
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG																_
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG																
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG								-								
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  S/20/98  DEBRIS FILL  DEBRIS FILL  HIGHLY  HIG	,															_
Water Table (24 Hour)  Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number    CLAY   DEBRIS   DRILLING METHOD			,		ND	GEN	OG LI	RAPHIC	(	1	1		Hours	Toble (04.11	\A/a.t	
NO. Identifies Sample by Number	2 of 2	-	20/95	5/								a)				
TELL THE DUMPIC CONCENSION MONDO					( NIC (PEAT)	HIGHL	$\overline{\sim}$		1			pm)	Detection (p) e by Numbe	onization De ies Sample l	Photoion Identifie	PI
SANDY WESEN ARE	.V.	EN ARV.	LED BY	DRIL	DY								on memod		Sample	
AUGER CORE LOGGED BY			_	LOG							OCK ORE	R	AUGER	AU	PLIT- SARREL	LANA
	N (FT. AMSL)	RESD DE ELEVATION (FT.	T, ,	EXIS	U	SAIN			1		10	s \\\	CONTINUOUS	СО		EXP
1085	INATES	GRID COORDINATE	CATION OF	100	***************************************				1	KΥ	ECOVE	R	SAMPLER	SA	UBE	
DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet  CLAYEY SILT  LOCATION OR GRID COORDIN				1				SILT	1873		n Feet	iample I Sample ii	Bottom of Sof Recovered	Top and Bo Length of R	H Depth T . Actual L	

	nn-wickee Conformation	KM SUBSIDIARY  KMC - LLC    Quinified blows			LOCATION HEW	TER	SON	ON NV BORING PC-61			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION				BLOWS PER 6"	PID (ppm)	NO.	SOIL S	<b>AMPLE</b> PTH	REC.	REMARKS OR FIELD OBSERVATIONS
3 -	BERM MATERIAL  SANDY SPAUEL TIK BIR  DRY WELL GRADED	Souty	10/10/10/10/10/10/10/10/10/10/10/10/10/1								- - - - - - -
-   18	GRAVEUN SANTO DK BRN WELL GRADED MOIST	Sury	المن المن المن المن المن المن المن المن	Ciu							- - - - -
(S- - - - W-	SAND SILTY DIC BRANG COMMON TR CLAY WE WELL GLONED	jeaver *									- - - - -
25	GRAVEL SANDY DIK BR TR SILT WELL GRADED GO'D GRAVEL IS'1, SE C CILS	K-V	Engine 6, 6 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	ŞW			)	X 25	-26	100%	- - - - - - -
35-	SAND DIC 13PD CRS GR SILTY POOR GRADED LOOS SOFT ORCASSIONAL CLAY LA	/	2000	SM			2	X 35	-36	100%	
	Water Table (Time of Boring	óm)						DEBRIS FILL HIGHLY DRGANIC (PEA	DRIL DRIL AT) DRIL	LING METH HSA LED/BY	98 1 of 2
	SPLIT- BARREL  THIN- WALLED TUBE  EPTH Depth Top and Bottom of So	NC RE	COVER	łΥ		SAND GRAVEL SILTY CLAY CLAYEY SILT		SANDY CLAY CLAYEY SAND	EXIS		ZIWORD  ELEVATION (FT. AMSL)  GRID COORDINATES
D	WALLED CONTINUOUS SAMPLER	RE Imple	COVER	RΥ		SILTY CLAY			-		

	KERR-McGEE CORPORATION	KM SUBSIDIARY			LOCATION		. /	BORIN	G CN , (
	Hydrology Dept S&EA Division	KMC-L			HEUDE	RSON	NV	NUMBI	ER (2-6)
DEP1	H LITHOLOGIC DESCRIPTION					OIL SAM		REMARKS OR	
FEE	T	GRA	CLA	ASS. 6"	(ppm)	NO.	DEPTH	H REC.	FIELD OBSERVATIONS
					_				_
					<u> </u>				-
	SAND BROWN F-VC	25 coul:	51	~			3		
100		(C) 7(W).	-						
173	TOORLY GRADED								
	SILTY CLAY GRY GRA	, <u>\</u>	XX C	<u>ر</u>	_	3	47-4	8 100%	
	SLI SANDY FIRM - ST	IFF							
50	+				-				T/MUSDY GEERE
					-				47' -
									TT 48'
	_				-				``` 46
55									
									_
									45' ALWVIUM -
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H	▼ Water Table (24 Hour)		1		GRAPHIC	LOG LEG	END	DATE DRILLED	
		ıg)			CLAY	D FI	EBRIS LL	5/26 DRILLING MET	
Z	PID Photoionization Detection ( NO. Identifies Sample by Numb TYPE Sample Collection Method			1	SILT		GHLY GANIC (PEAT)	HS6	7
ATIC	SPUT-	∏ ROC	ĸ		SAND	∑ s c	ANDY LAY		SER
EXPLANATION	BARREL	COR			GRAVEL	S S	LAYEY AND	LOGGED BY	DAWFORD
	THIN- WALLED TUBE  CONTINUOL SAMPLER	NO RECO	OVERY	- 1	SILTY CLAY				DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovered	Sample d Sample in Fo	eet		CLAYEY SILT	□_	<del></del>	LOCATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KMC- L	.LC		LOCATION HEN	DER.	So.	2 1	BORING NUMBE	RPC-43
DEP			UNIFIED	BLOWS				L SAMP		
FEE	LITHOLOGIC DESCRIPTION	GRAPHIC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	4YPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	- BERM MATERIAL	ره. ره مروت								_
. 2	120 CPC 17 SCECIALD	اروت				-				+
		ol.								
5							ı			_
	- SAND/GRAVEL BO	2N - 1:::	à . /							+
	- SAND/GRAVEL BO	CASEN 10.	GW/							
	- SILty		SM							_
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20	)	: i . T					i			<u>-</u>
	SAND GRAVEL HAR		Sm							_
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30	<del>}</del>		-							
İ										
	_	6.01			-					_
3	SILTY CLAY ARN +0 GRU		CL	†						
	- W DIL ORANGE LAWS S	OFT TO	-	-		<del> </del>		34-3-	7 100%	
ĺ	- Firm						M	<u> </u>	1 100	_
l.,										_
14	<u>Ø</u> Water Table (24 Hour)		1	0	RAPHIC I	LOG LE	GEN	D D	ATE DELLED	PAGE
	<ul> <li>✓ Water Table (Time of Boring)</li> </ul>	)			CLAY		DEBRI FILL		5/27/	98 / of 1
	PID Photoionization Detection (pp NO. Identifies Sample by Number						HIGHLY ORGANIC	1	HSA	T
NO.	TYPE Sample Collection Method			1				15	WEB.	EI /
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE			SAND		SAND	10	OGGED BY	
XPL/				1::	GRAVEL		CLAY! SAND	L_i	J. C	RAW FORD
4	WALLED CONTINUOUS SAMPLER	NO RECOVE	RY		SILTY CLAY			<sup>E</sup>	AISTING GRAD	DE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of Sc REC. Actual Length of Recovered				CLAYEY SILT				OCATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY KU(-L(	r		LOCATION	ERSON	<u> </u>	BORING	G PC-69
DEPT		<u> </u>	UNIFIED	BLOWS			OIL SAMP		
IN FEE	LITHOLOGIC DESCRIPTIO	Z GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	ON TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
5. (10. 15. 25. 35. 35.	SILTY SAND RD BR GRADED DTY SILTY SAND BEN- REN GRAVELS USE GRADED WLT	The state of the s	SM SM SM						
			<u> </u>					DATE DRILLEC	- PAGE
	▼ Water Table (24 Hour)				-	LOG LEGE	-110		98 1 of 2
N	Vater Table (Time of Boring Photoionization Detection (plantifies Sample by Number Sample Collection Method	opm)		i	CLAY SILT		HLY GANIC (PEAT)	ORILLING MET  HSA  ORILLED BY	THOD
EXPLANATION	SPLIT- BARREL AUGER	ROCK		1	SAND GRAVEL	SA Ci SA	AYEY	WEB LOGGED BY	FANTORI)
EXP	THIN- WALLED TUBE  CONTINUOUS SAMPLER	S NO RECO	VERY	- 1	SILTY		1		ADE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	Sample Sample in Fe	et		CLAYEY SILT			LOCATION OF	R GRID COORDINATES

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA		.\ C	-	LOCATION HEND	HENDETSON NV			BORING PC-69	
DEPTH			E.	UNIFIED					L SAMPLE	E	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER €"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
  45	GRISLES  SILTY SAND BEW - FI  13RN GRAVELS COMM WELL GRADED "SOUT	MoN		GM							- - - - - -
- 50 — - 52 -	CORBIES SILLY CLAY LARD	74 51 5	1.00.00.	Ci			i.				52' musty (REGIL
	to V I GEN GY	wist	191	100				1			_
	TO V CF GEN GY SLI PLAGTIC SAN G	MOIST									
4	_					GRAPHIC			(	E 1	PAGE D of D
P N	Water Table (Time of Borin PID Photoionization Detection (p O. Identifies Sample by Numb (PE Sample Collection Method  SPLIT- BARREL  THIN- WALLED TUBE  CONTINUOUS SAMPLER	opm) er  R C	ROCK CORE NO RECOVE	ERY		GRAVEL SILTY CLAY		HIGHLY ORGAN SANI CLAY	IIC (PEAT)  DRI  DY  (YEY  D  EXI	ILLING MET  HEAD  ILLED BY  GGED BY  THE GRAPH STING GRAP	REIZ  RAWFOIZD  IDE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	Sample I Sample i	n Feet		873	CLAYEY			LO	CATION OR	R GRID COORDINATES

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA	- LLC			Henderson NL				BORIN	ER PC 75
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID (ppm)	NO.	TYPE S	DIL SAMPL	.E REC.	REMARKS OR FIELD OBSERVATIONS
FEET	PC 75 located SW of PC 74.  See log of PC  for lithology (Soil boring).  WTR SAMPL  @Z5' thru o PH 7.6 TDS 8200	74	GR GR	CLASS.	6'		o (₹.		HOLI	REC.	DRY@ Z1'
P	Water Table (24 Hour)  Water Table (Time of Borin Photoionization Detection (p C). Identifies Sample by Numb Sample Collection Method	opm)				CLAY SILT		DEI FILI HIGH ORG	BRIS DE	FILLED BY	- 00   1 of 1
EXPLANATION	SPLIT- BARREL  THIN- WALLED TUBE  SPLIT- AUGER  CONTINUOU SAMPLER	s N	OCK ORE ORE	ERY	ł	SAND GRAVEL SILTY CLAY			ND ND	COM DGGED BY E KISTING GRA	Pliance KRISH ADE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	Sample				CLAYEY		]	L	OCATION OF	GRID COORDINATES

## Monitor Wells

	KERR-McGEE CORPORATION	KM SUBSIDIARY			LOCATION					BORING OC 1	
	Hydrology Dept S&EA Division	KMCLLC	UNIFIED	DI ~:-	HENDER	ركهمكا			NUMBER PC-1		
DEPT IN FEE	LITHOLOGIC DESCRIPTIO	1 - (2)	SOIL	BLOWS PER 6"	PID (ppm)	NO.	SOIL SA	г	REC.	REMARKS OR FIELD OBSERVATIONS	
5	- FILL: SAND/GRAVEL I - IMPOUNDMENT BERM		CLASS.								
10 15		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sm-							- - - - - - - - - - - - - - - - - - -	
23,	- ~0157 - GRAVEL ZONE @ 22'									- - -	
30 31 3.	SILTY CLAY; RES-BROWN L		1	23.7			3			CROUNDWATER - SAMPUL COLLECTUS - C 28' _	
	MUDOY CREEK			81443			333	,5	1.z´	- - - - - -	
П	▼ Water Table (24 Hour)				RAPHIC I			1	DRILLED	PAGE / of /	
EXPLANATION	Water Table (Time of Boring Photoionization Detection (p) NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT-BARREL AUGER  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of So	pm) r  ROCK CORE  NO RECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		DEBRIS FILL HIGHLY DRGANIC (PEAT SANDY CLAY CLAY SAND	LOGG		A	
	REC. Actual Length of Recovered	Sample in Feet		1 418	JIL1						

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM \_---Casing Cap Vent ? Yes No No Protective Pipe -------Lock? Yes D No Yes V No $\square$ Ween Hole? Yes 🔲 No 🔲 Steel P PVC Surveying Pin ? --Concrete Pad Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches Yes $\square$ No 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 8 Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No Concrete Ft. CASING GRADE Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes 🔲 No D Depth= to Feet. Cement/Bentonite Grout Mix Yes [V] No 4. Borehole Diameter for Outer Casing\_\_\_\_ Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 8.5 Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple Glue-Couple Other 3. Type of Well Screen: PVC $\square$ Galvanized $\square$ 10 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Pellets Slurry Casing Z Inches, Screen Z Inches. 5. Slot Size of Screen: ,020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No 14,7 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping D Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand /0 \_/\_\_\_\_ | Minutes/Hours 15 Ft. Washed Sand 3. Approximate Water Volume Removed ? 140 Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: \_\_\_\_ 5. Water Clarity After Development? Clear Turbid 🗔 Opaque | Sand Size \_ 8-12 6. Did Water have Oder? Yes No [ 129.7 If Yes. Describe 7. Did Water have any Color? Yes No IV Dense Phase Sampling Cup Ft. Bottom Plug If Yes, Describe Yes No 🗆 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material Backfill Ft. During Drilling 23,5 Ft. Date 3/23/98 Grout Sand Before Development 20,3 Ft. Date 3/24/98 Caved Material (France) After Development 22.42 Ft. Date 3/25/98 Other: Driller/Firm ROBERTSON / WEBER DRILING Drill Rig Type MOBILE B-61 Date Installed Kerr-McGee Drill Crew ROBERTSON/SOHWSON / RIVIERA Well No. PC-1

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY  KMCLLC			LOCATION HENDE	nson,	M	BORING NUMBER PC-4		
DEP1			UNIFIED			· · · ·	SOIL SAM	PLE		
IN FEE		GRAPHIC	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.			REMARKS OR FIELD OBSERVATIONS	
	- FILL: SAND AND GRAV - IN IMPOUNDMENT BEA	en Pi							- - - -	
.5 · 10 ·	- SAND / SILTY SAND; CRA COMMON TO ABD; LT. TO - BROWN; DRY TO SLI; M	o157;   0 c								
/s ·	- GRAVE @ 11-13,5'	0000	SM-						- - - - - - - - -	
20 21 25		000000000000000000000000000000000000000								
30 35	AND AS HIENE, SATIVITA	0	GM						- - - - -	
40	- CRAVEL @ 38-40'	0000								
$\prod$	▼ Water Table (24 Hour)				RAPHIC		EIND	DATE DRILLED		
TION	Water Table (Time of Boring PID Photoionization Detection (p NO. Identifies Sample by Number Sample Collection Method	pm)			CLAY SILT SAND	FIII HIGH	GHLY GANIC (PEAT) ANDY	3/24/ DRILLING METH	)	
EXPLANATION	SPLIT- BARREL AUGER	ROCK		1	SAND GRAVEL	C C	LAYEY		- DRILLING	
E	THIN- WALLED TUBE  CONTINUOUS SAMPLER	S NO RECOVE	RY	1	SILTY			EXISTING GRAI	RED DE ELEVATION (FT. AMSL)	
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample in Feet			CLAYEY SILT			LOCATION OR	GRID COORDINATES	

KERR-McGEE CORPORATION KM SUBSIDIARY					LOCATION					BORING		
Hy	ydrology Dept S&EA Division	KMC	LLL			HEND	بره	J,	NV	NUMBER PC-4(CONT,)		
DEPTH			GRAPHIC LOG	UNIFIED		PID		SC	OIL SAM	<b>NPLE</b>	REMARKS OR	
FEET	LITHOLOGIC DESCRIPTION	אכ	SRAI LO	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	H REC.	FIELD OBSERVATIONS	
40	,		901									
	GRAVEL @ 41,5-42,5"		000	5M-				1450			GROUNDWATEL SAMPLE	
۔ را			600	GM							TAKEN @ 42'	
43,5	SILTY CLAY; LT. GRAY-GRE	w; su!	777	<u> </u>				Trans		1	_	
45-	ALASTIC MUDDY CIRCEIN	<u> </u>	X/Y	CL	1724		<del> ,-</del>		45	***************************************		
-	TO 45'				1734 52		'	Д	46.5	1,4'		
	10 45											
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Ħ,	✓ Water Table (24 Hour)		1	1	G	RAPHIC I	OG LE	GEI	1U 1	DATE DRILLED		
1 1	▼ Water Table (Time of Boring	a)				CLAY				3/24/	98 2 of 2	
	PID Photoionization Detection (p NO. Identifies Sample by Number YPE Sample Collection Method	pm)							Y NIC (PEAT)	DRILLED BY		
VATIO	SPLIT- AUGER	R	ock		1	SAND			IDY	LOGGED BY	C DRILLING	
EXPLANATION	DARKEL		ORE		1	GRAVEL		CLA SAN	YEY		ESD DE ELEVATION (FT. AMSL)	
	WALLED TUBE CONTINUOUS SAMPLER	R	O ECOVE	RY	1	SILTY CLAY						
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet				图别	CLAYEY SILT				LOCATION OR	GRID COORDINATES	

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe -------- Casing Cap Vent ? Yes No Lock? Yes 🗸 No 🗍 Yes V No $\square$ Weep Hole? Yes No 🗌 Steel PVC Surveying Pin ? --Concrete Pad \_\_\_\_\_Ft. x \_\_\_\_Ft. x \_\_\_\_Inches Yes $\square$ No $\square$ DRILLING INFORMATION: **DEPTH** 1. Borehole Diameter= 8 Inches. FROM TOP OF 2. Were Drilling Additives Used? Yes No No Concrete GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes No 2 Cement/Bentonite Grout Mix Yes No No 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 12,6 Ft. 94Lb. Bag Cement & I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple Glue-Couple Other 3. Type of Well Screen: PVC 🗗 Galvanized 🗍 13.6 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Casing 2 Inches, Screen 2 Inches. Pellets Slurry 5. Slot Size of Screen: . 020 Filter Pack 6. Type of Screen Perforation: Factory Slotted 17 Ft Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand 45 / Minutes/Hours Washed Sand 3. Approximate Water Volume Removed ? 50 Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque D Other: \_\_\_ 5. Water Clarity After Development? Clear Turbid Opaque Sand Size \_\_\_\_ 8-12 6. Did Water have Odcr? Yes No D 42.7 If Yes, Describe 7. Did Water have any Color? Yes No A Dense Phase Sampling Cup If Yes , Describe Bottom Plug No 🖂 Yes 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material Backfill During Drilling 22' Ft. Date 3/24/98 Ft. Grout Sand Before Development\_\_\_\_\_ Caved Material After Development 23.65 Ft. Date 3/25/98 Other: Driller/Firm L. ROBERTSON / WESER DRUC. Drill Rig Type MOBILE B-61 Date Installed 3/24/98 Kerr-McGee Drill Crew ROBERTSD / JOHNSON / RIVERA Well No. PC-4

	RR-McGEE CORPORATION  Irology Dept S&EA Division	DIARY C- LL	<u></u>		HENDERSON NU				BORING NUMBER PC-(0	
DEPTH			UNIFIED					IL SAMPL	E	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTION	GRAF	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
-	SAND/SILTY SAND TANNISI	10.			_					<u></u>
-	BLOWN WELL GRAPED	. 0	Su		_					AUGER TO TOP-
]	LAGSE V SCI MOIST	11.					7.			OF MUDDY CREEK
5-	GRAVELS	1:10			<u></u>					THEN SPUT SPOUN
	4	, ,								SAMPLE -
4	DECREASE SILT	-			_		Sec. Sec. Sec.			
										_
10		0.			-					_
_		, 0	-		_		S. 282.2			_
_		0.								
15	SAND BUMY BROWN	10			_					
	Slimoist	3:								-
		١٠١	City		_					_
	Samo Band Clayer De BB.	6	GW							_
W— -	SAND BLING CLAYEY DK BRI	3000								-
_		V			-					_
_	GRAVEL TO CORISLE	. 0.								GREWNOWATER -
25		20			-					SAMPLE COLLECTED
_		00.5								AT 22'
_	SAND/CLAYEY SAND DIC BE	ZN \			_					-
7 0-	SAND/CLAYEY SAND DIC BE SEL COHESIVE	9								
30-		1.1	l l		_					-
-	_	3.3	:							-
3d-		0,								T/ MODON CREEK 341
35-	SILTY CLAY GREENISH GRAY SCI-NOW PLASTIC	N.	1 00	-	<del> </del>	-	X		-	
-										70 35
-		-			-					-
-										
J	,				GRAPHIC			1	TE DRILLEC	
	ID Photoionization Detection (ppm)			1 .	CLAY		DEB	DR	ILLING MÉT	HOD
	O. Identifies Sample by Number PE Sample Collection Method				SILT		HIGH	MIC IDEATA	HS,	4
IAI L	SPLIT-	ROCK			SAND		SAN			BER
EXPLANATION 3	BARREL AUGER	CORE			GRAVEL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CLA	AD (AEA	GGED BY	CRAWFORD
Ä	THIN- WALLED CONTINUOUS SAMPLED	NO RECOVI	FRY	1	SILTY		1	4	_	DE ELEVATION (FT. AMSL)
'	TUBE	, RECOVI	LNI	1	CLAYEY		, ]	LC	OCATION OF	GRID COORDINATES
	PEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample	in Feet	t	1013	N SILT		J			

Francis and	KERR-McGEE		
FLUSHMOUNT	HYDROLOGY		
1			ATION DIAGRAM
Protective Pipe		Casing Cap Ver	nt ? Yes No No
Yes No l		_ock ? Yes 🗌	
Steel   PVC		Weep Hole ? Y	es 🗌 No 🗍
Surveying Pin ? Ft.		Concrete Pad	Ft. xFt. xInches
Yes Vo			DRILLING INFORMATION:
<u> </u>	DEI	PTH FROM	I. Borehole Diameter= 8 Inches.
ConcreteFt.	BELOW GRADE	TOP OF CASING	2. Were Drilling Additives Used? Yes No M  Revert Bentonite Water Solid Auger Hollow Stem Auger
			3. Was Outer Steel Casing Used? Yes \( \text{No} \( \mathbb{D} \)
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes 🔽 No 🗌			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement &	1		I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 🗹 Glue-
			Couple Other
18			3. Type of Well Screen: PVC 🗹 Galvanized 🗌
Burtanita Cast			Stainless Teflon Other
Bentonite Seal 3.6 Ft	.⊠ ⊠		4. Diameter of Casing and Well Screen:
Pellets Slurry 1/1.6		-	Casing 2 Inches, Screen 2 Inches.  5. Slot Size of Screen: 0,020
Filter Pack			6. Type of Screen Perforation: Factory Slotted
Above Screen 2.2 Ft			Hacksaw Drilled Other
17 6			7. Installed Protector Pipe w/Lock: Yes No
13.8	-{^}- <u>-</u>	<del>-</del>	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			
Silica Sand	1 13 1		2. Time Spent on Well Development?
Washed Sand IV 20 F	.l. El .l		/Minutes/Hours
Washed Galle D	1. 目: 1	•	3. Approximate Water Volume Removed ? Gallons
Pea Gravel			4. Water Clarity Before Development? Clear  Turbid  Opaque
Other:	1 目 1		5. Water Clarity After Development? Clear 🗌
Sand Size 8-12			Turbid Opaque
			6. Did Water have Oder? Yes No No If Yes, Describe
<b>A</b> .			7. Did Water have any Color? Yes No
Dense Phase Sampling Cup 12 F	<b>t-}</b>		If Yes, Describe
Bottom Plug Yes □ No □   7 4			
Overdrilled Material			WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill , F Grout Sand Sand	•		During Drilling $\frac{23}{}$ Ft. Date $\frac{3/30/98}{}$
Caved Material P	-()		Before Development 20.95' Ft. Date 4/17/98
Other:			After Development 20.95' Ft. Date 4117/98
Driller/Firm 4. ROBENTSW / WE	Rea ADIC Drill Rig T	[vne <i>R-6]</i>	HDX Date installed $4/13/98$
Diller I IIII - I RUBERUSW   WE	BOL OPELS, DITH MY	. 3 PC <u>U U/</u>	Kerr-McGee
Drill Crew L. ROBERTSON/R. MON	TUFAR Well No.	PC-10	Hydrologist T. PSED

LITHOLOGIC DESCRIPTION SAND SILTY SAND LT BIZN-TAN WELL GRAVELS TO CORRLES	4RD (2)	UNIFIED SOIL FIELD CLASS.		SOIL SAI		REMARKS OR FIELD OBSERVATIONS
LT BIZN-TAN WELL A GRAVELS to CORRLES	qrn ro	;				- - - -
	tay	<b>V</b>				POOR RETURNS RELOW TO  T/MUDDY CREEK 29.5'-  GROUNDWOTER SAMPLE COLLECTED  O LO'
Photoionization Detection (p. Identifies Sample by Number Sample Collection Method  SPLIT- BARREL  AUGER	opm)		CLAY  SILT  SAND	DEBRIS FILL	DRILLING MET  DRILLED BY  LOGGED BY	(48 / of /
	Water Table (24 Hour)  Water Table (Time of Borin Photoionization Detection (p Identifies Sample by Numb E Sample Collection Method  SPLIT- BARREL  AUGER	SDIGRANELS WI CLAY  AAB  SILTY CLAY GREENISH GRAY SLI PLASTIC  Water Table (11me of Boring) Photoionization Detection (ppm) Identifies Sample by Number E Sample Collection Method  SPLIT-  ROCK	SILTY CLAY GREENISH GRAY SILTY CLAY GREENISH GRAY SLI PLASTIC  Water Table (Time of Boring) Photoionization Detection (ppm) Identifies Sample by Number E Sample Collection Method  SPLIT- BARREL  AUGER  ROCK CORE	SD/GRAVELS W/ CLAY  AAB  SILTY CLAY GREENISH GRAY SLI PLASTIC  Water Table (24 Hour)  Water Table (Time of Boring) Photoionization Detection (ppm) Identifies Sample by Number E Sample Collection Method  SPLIT. BARREL  AUGER  ROCK CORE  GRAVEL	SD/GRAVELS W/ CLAY  AAB  SILTY CLAY GREEN SLI GRAY  SUI PLASTIC  Water Table (24 Hour)  Water Table (Time of Boring) Photoionization Detection (ppm) Identifies Sample by Number E Sample Collection Method  SPLIT BARREL  AUGER  ROCK CORE  GRAPHIC LOG LEGEND  CLAY  BIGHT ORGANIC (PEAT  SAND  SAND  SAND  CLAYEY SAND  CLAYEY SAND	Solbranels w/ Clay  AAB  SILTY CLAY GREEN SA GRAY  SUI PLASTIC  GRAPHIC LOG LEGEND  SUI PLOTIC  GRAPHIC LOG LEGEND  DATE DIPLICATION  CLAY  SUI PLOTIC  GRAPHIC LOG LEGEND  DATE DIPLICATION  CLAY  SUI PLOTIC  GRAPHIC LOG LEGEND  DATE DIPLICATION  SUI PLOTIC METHOD  AUGEN  SAND  SAND  SAND  SAND  SAND  CLAY  GRAVEL  GRAVEL  GRAVEL  GRAVEL  GRAVEL  GRAVEL  GRAVEL  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  COGGED BY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  CLAY  COGGED BY  COGGED BY  COGGED BY  CLAY  COGGED BY  COGGED

FLUSHMOUNT		-McGEE CORPO	· · · · · · · · · · · · · · · · · · ·
\		ROLOGY DEPAF <i>Well Install</i>	ATION DIAGRAM
Protective Pipe			ent ? Yes No
Yes No	·	Lock ? Yes	<del></del>
Steel PVC	1	Weep Hole?	
Surveying Pin ?	Ft.		Ft. xFt. xInches
Yes No 🗆			DRILLING INFORMATION:
	N. Vo. V	DEPTH FROM	I. Borehole Diameter= 8 Inches.
Concrete		BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No V  Revert Bentonite Water Solid Auger Hollow Stem Auger
	1 1		3. Was Outer Steel Casing Used? Yes ☐ No ☑
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes 🖸 No 🗌			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	10.5 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder		}	I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗍
Other:			Stainless Other  2. Type of Casing Joints: Screw-Couple Glue-
			Couple Other
	10.5	<b>}</b>	3. Type of Well Screen: PVC 🗗 Galvanized 🗌
Destable Oast	<b>→</b> 👹 🕷		Stainless Teflon Other
Bentonite Seal	<u>2, 5</u> Ft⋅₩	\$	4. Diameter of Casing and Well Screen:
Pellets 🗹 Slurry 🗌	<b>1</b> /3		Casing 2 Inches, Screen 2 Inches.
Filter Pack			5. Slot Size of Screen: 0.020
Above Screen _	1.8 Ft.		6. Type of Screen Perforation: Factory Slotted
		:{	Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No V
	114.8	<del>}</del>	WELL DEVELOPMENT INFORMATION:
		.{	I. How was Well Developed? Bailing Pumping
FU TED DAOK MATERIAL			Air Surging (Air or Nitrogen)  Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand	- 1. 닭		/ Minutes/Hours
Washed Sand	15 Ft.   E	•	3. Approximate Water Volume Removed ? 100 Gallons
Pea Gravel [			4. Water Clarity Before Development? Clear 🗌 Turbid 🗌 Opaque 🗹
Other:			5. Water Clarity After Development? Clear
Sand Size 8-17		. }	Turbid Opaque
	129.8		6. Did Water have Oder? Yes 📈 No 🗌
Dense Phase Sampling Cup	. •	:}	7. Did Water have any Color? Yes No IV
Bottom Plug	, <u>, 2</u> Ft.	:1	If Yes , Describe
Yes No D	30	·}	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	/ Ft.		Water Level Summary (From Top of Casing)  During Drilling
Grout Sand	131	İ	Before Development 19.80 ' Ft. Date 4/17/98
Caved Material		· · · · · · · · · · · · · · · · · · ·	After Development 19,82' Ft. Date 4/17/98
Other:			
Driller/Firm L. ROBENTSO	w/weser	Drill Rig Type <u>B-61</u>	$\mu_{0X}$ Date installed $4/13/98$
Driller/Firm <u>L. ROBENTSO</u> Drill Crew <u>L. ROBENTSO</u>	1	Well No. PC-	Kerr-McGee
Drill Crew L. RUBERTSIN	K, MONTUFAR	Well No. PC-	12 Hydrologist T.RKD

	SOIL BORING LOG KM-5655-B  KERR-McGEE CORPORATION KM SUBSIDIARY						LOCATION HENDERSON NII BORING 7 -17					
	drology Dept S&EA Division	Kuc.		T		DERS	N GO	101	NUMBE	R C-17		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)			REMARKS OR FIELD OBSERVATIONS				
30-	STLY SAND RD BRN N/ GRAVEN, SAND RD BRN to SLI MOIST SILTY  SRAVEN, SAND WI CL GRAY IS IN BRN SU C	of the sive	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.		GRAPHIC			IDATE	DRILLED	GROWNSWOYEN - Saupre GLECTEN - At 19		
7 F	Water Table (Time of Boring Photoionization Detection (pp. Identifies Sample by Number Sample Collection Method	pm)		i	CLAY		DEBRIS FILL HIGHLY ORGANIC (PE	DRILI	F/1 /G LING METH HS & LED BY	HOD		
EXPLANATION	SPLIT- BARREL  THIN-	ROC			SAND		SANDY CLAY CLAYEY SAND		GED BY	ZANFORZO		
	WALLED TUBE CONTINUOUS SAMPLER NO RECOVERY  DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet			1	SILTY CLAY CLAYEY SILT			-	EXISTING GRADE ELEVATION (FT. AMSL)  LOCATION OR GRID COORDINATES			

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C - UC					LOCATION HENDERSON NV BORING PC-17							
DEPT	LITHOLOGIC DESCRIPTION	М	GRAPHIC LOG	UNIFIED SOIL FIELD	PER	PID (ppm)	No.	SOIL SA			RE	MARK	S OR /ATIONS
FEE 445-	-SAND/GRAVEL		6. (0. (0. (0. (0. (0. (0. (0. (0. (0. (0	CLASS.	6'		NO.	7T DE	PTH	REC.			
50	SILTY CLAY V. LIGHTO GRAYISH WHITE V SATURATED  Brmy GRAYISH GREE SLI MOIST FIRM	. Soft	(F/Z///	CL							7/ Wu 4/	g' `	(REEK
55												55	
EXPLANATION	Water Table (24 Hour)  ✓ Water Table (Time of Borin PID Photoionization Detection (p NO. Identifies Sample by Numb TYPE Sample Collection Method  ✓ SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of SREC. Actual Length of Recovered	opm) er  S  Sample	OCK CORE NO ECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY SILTY CLAY SILT		DEBRIS FILL HIGHLY ORGANIC (PEA SANDY CLAY CLAYEY SAND	LOC	LLING METH HSA LLED BY Wをか SGED BY J. ( STING GRA	<u></u> 8∕	L) ON (FT. 4	

- 1				
FLUSHMOUNT		-McGEE OLOGY		
well				ATION DIAGRAM
Protective Pipe				
-/				nt? Yes No No
Yes No	<b>→</b>		ck ? Yes [	'es
Steel PVC	Ft.		,	
Surveying Pin ? Yes		Co	ncrete Pad_	Ft. xFt. xInches
168 17 110 11	U.V. D. C.	DEP1		DRILLING INFORMATION:
-			FROM	1. Borehole Diameter= Inches.
Concrete	Ft.	BELOW GRADE	TOP OF CASING	2. Were Drilling Additives Used ? Yes No 🗌
		G		Revert Bentonite Water
		<u> </u>		Solid Auger 🔲 Hollow Stem Auger 🗗
	<b>†</b> }			3. Was Outer Steel Casing Used? Yes No No
Cement/Bentonite Grout Mix				Depth=toFeet.
Yes ☑ No ☐				4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to	Ft.			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & 3-5 Lb. Bentonite	<del></del>			1. Type of Casing: PVC 💟 Galvanized 🗌 Teflon 🗌
Powder				Stainless Other
Other:				2. Type of Casing Joints: Screw-Couple 🖵 🛚 Glue-
				Couple Other
	1	5.5		3. Type of Well Screen: PVC Galvanized
Bentonite Seal	↑ 🔘 🗒			Stainless Teflon Other
1	Ft•	, 		4. Diameter of Casing and Well Screen:
Pellets V Slurry	<b>→</b> 👹 👹	' S/		Casing Inches, Screen Inches.
5				5. Slot Size of Screen: () ()
Filter Pack Above Screen _	Ft.			6. Type of Screen Perforation: Factory Slotted
Above Octeon _				Hacksaw Drilled Other
		10		7. Installed Protector Pipe w/Lock: Yes No
				WELL DEVELOPMENT INFORMATION:
				1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL				Air Surging (Air or Nitrogen) Other
Silica Sand				2. Time Spent on Well Development ?
	Ft. (3)			/
Washed Sand 🕡 _				3. Approximate Water Volume Removed ? <u>//O</u> Gallons
Pea Gravel		}		4. Water Clarity Before Development? Clear 🗌
Other:		}		Turbid 🗹 Opaque 🗌
Other.				5. Water Clarity After Development? Clear
Sand Size 8-12		1 : -		Turbid Opaque
	→	50.5		6. Did Water have Odcr? Yes No 📈
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		\		7. Did Water have any Color? Yes No
Dense Phase Sampling Cup	) 0-5 Ft.	1		If Yes, Describe
Bottom Plug Yes No No		151		
Overdrilled Material		1		WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill	Ft. I	ļ		During Drilling 19' Ft. Date 411/98
Grout Sand		1		Before Development 19.2 Ft. Date 4/17/98
Caved Material [	<u> </u>	55_		•
Other:				After Development 19.2 Ft. Date 4/17/98
		_ 1	41 * * *	il - alolo
Driller/Firm WEBEW		Drill Rig Typ	be Monil	
Drill Crew LEE Co	NEUTSON	Well No	PC-1	T Kerr-McGee Hydrologist T, W ROWFIND

	RING LOG KM-5655-B	KM SUBSIDI	ARY			LOCATION				0.05:::	
	RR-McGEE CORPORATION drology Dept S&EA Division	KM		11.		HEN	DEK	N	NV	BORING	GR PC-18
Т	area of the control o	TYVL			DI OME	L	ī				
DEPTH IN	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	PER	PID			IL SAMPLI	WEINIWKY2 OK	
FEET	Entropolic Description	``	85	CLASS.	6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
				+				1			
	SILTY SAND TED BREN		olo								_
_	· -		[olj	Sar		_					
	den Well graden		1.6								
⊤ے	GILANELS		0								_
5-			. 0		•						
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_			5.								_
<u>,                                   </u>											
10-											
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			0.0								
			:31								
15-			0								
′ >			3.0								
			0	Gm							
_			o ·								
			. 5								COLLECT -
20-			000								GROUNDWATER -
-			100								SAMPLE AT 22'-
_			6:					100			_
-			201	1							_
_			6.3	·							_
27=	Sund grovel bin bung moist well		500								
-	being moist well	ilades	0.0								_
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30-			6,0								
-			. 0								_
-	SOUN CARREL GRANIS		0."								_
-	SAND/GLOVEL GROWS BROWN WELL GROWEN SAT SILTY	94	0	Gan							_
-	Brown werr Graden	) .	6								
_	SAT SILTY		6.6	. [							
1.			1- 6					K			
			1.1.	:							_
			100	1							
			<u>  '- '</u>				<u></u>			<u></u>	L
Y	Water Table (24 Hour)				0	RAPHIC	LOG LE	GEN	1D DAT	E DRILLED	
		1)				CLAY	38	DEBR	RIS	4/2/	
PI	D Photoionization Detection (p	pm)			1			HIGHLY		HS	
	PE Sample Collection Method	•				SILT		ORGAN	HC /DEAT\	LLED BY ,	-
EXPLANATION	71 -					CAND		SAN		,	Edick
<b> </b>	SPLIT- BARREL AUGER		OCK ORE			SAND			LOC		
	A BULLET		-ONL			GRAVEL		CLAY	YEY D	J. 0	(Kontoro
Image: Control of the control of the	THIN-		10		1						DE ELEVATION (FT. AMSL)
	TUBE SAMPLER	R	ECOVE	RY	ı	SILTY CLAY		_			
DI	EPTH Depth Top and Bottom of So	ample			M	CLAYEY SILT			LO	CATION OR	GRID COORDINATES
	EC. Actual Length of Recovered	Sample in	n Feet		المنتها	JILI					

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KWC- LLC				LOCATION HEN	DEUS	o ا	NU	BORIN NUMB	G ER PC-18		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION			UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"		NO.		IL SAMI	PLE REC.	REMARKS OR FIELD OBSERVATIONS
- - - - -	Sand/Graver BRW WELL GRADED		0.0.0.	Gn				X			SPLIT SPOON  AT 42'  FOOR VETURNS
50- T/mc	SAND BRW F. CRS Gr '14" GREVER WEN GRADE SAT LOUSE SUI SURY			SW CL				X			T/MUDDY (REEK -
	SILTY CLOY RD BRN of SME SME FINE SAND & SME GRAVELS SILTY CLAY GREENIS 4 W/ tank to BROWN VAR BLOCKLY	M/									DRILL TD 53'
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Borin Photoionization Detection (I Identifies Sample by Numb Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of SREC. Actual Length of Recovered	Sample	ROCK CORE NO RECOVE	RY		GRAPHIC CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		DEB	RIS  Y NIC (PEAT)  IDY Y Y A ID	OGGED BY	18 2 of 2

FLUS)-)		
MOUNT	KERR-McGEE Hydrology	
M C		STALLATION DIAGRAM
Protective Pipe		ing Cap Vent ? Yes No
Yes No No		k? Yes 17 No
Steel Devc		pp Hole ? Yes \( \) No \( \)
Surveying Pin ?	E+         / /	·
Yes No	Con	crete PadFt. xInches
	DEPTI	DRILLING INFORMATION:
0	PELOW .	FROM I. Borehole Diameter= S Inches.
Concrete	Ft. GRADE (	CASING 2. Were Drilling Additives Used? Yes No No Revert Bentonite Water
<del>-</del>		Solid Auger 🗌 Hollow Stem Auger 🖸
	}	3. Was Outer Steel Casing Used? Yes 🗌 No 🏳
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes No No		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.	WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder	_	I.Type of Casing: PVC 🕢 Galvanized 🗌 Teflon 🗌
Other:		Stainless Other
		2. Type of Casing Joints: Screw-Couple Glue-
	1111115	3. Type of Well Screen: PVC Galvanized
		Stainless 🗌 Teflon 🗋 Other
Bentonite Seal	Ft. 🔘 🙀	4. Diameter of Casing and Well Screen:
Pellets Slurry		Casing Inches. Screen Inches.
-		5. Slot Size of Screen:
Filter Pack Above Screen	Ft.	6. Type of Screen Perforation: Factory Slotted 🕡
1		Hacksaw Drilled Other
<u> </u>		7. Installed Protector Pipe w/Lock: Yes No
†		WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing  Pumping
		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		
Silica Sand 🔀		2. Time Spent on Well Development ?
Washed Sand ☐ 40	Ft.{: /⊟::}	
Pea Gravel		4. Water Clarity Before Development? Clear
		Turbid Opaque
Other:		5. Water Clarity After Development ? Clear
Sand Size 8-12		Turbid Opaque
		6. Did Water have Oder? Yes No 🔃
Barra Bhara Garatian G		If Yes, Describe
Dense Phase Sampling Cup	<u>5_</u> Ft.}	7. Did Water have any Color? Yes No 🕡  If Yes . Describe
Yes No	52	
Overdrilled Material Backfill		WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Grout Sand	Ft.	During Drilling $22$ Ft. Date $4/8/98$
Caved Material		Before Development 19.80' Ft. Date 4/17/98
Other:		After Development 19.90' Ft. Date 417198
Driller/Firm WEBER	Drill Rig Type	MOBILE B-61 XD Date Installed 4/8/98
Drill Crew LEE ROBERTSO	1997 <u> </u>	

## SOIL BORING LOG KM-5655-B

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM-LUC						LOCATION HEND	EUSU	u u	·V	REMARKS OR			
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	и	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.						
10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SILTY SAND WY GRAVEL TED BIEN WELL ERAPE DRY  COBBLES  SAND GROWEL SO MO- SILTY LOOSE MOIST  CHAY SANDY WY SA GR GRAYISH BRN MOIST SLI FRUN CONSISTENCY	ose ty cas <u>ar</u>		SM SM							STROUNDWATER  SAMPLE COLLECTED  AT 35'  SPECIT SPOONS  REGULERED ONLY  FILL. PLULED  ANGERS TO VERYFY  SAMPLES. DIRILLED  THOUGHT THIS  INTERVAL MIGHT TOE  MUTON CREEK DIRE  TO DRILLIMA ALTOON		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- Water Table (Time of Boring	)			G	RAPHIC L		GEND DEBRIS FILL	<del>.  </del>	EDRILLED	PAGE / of 2		
PII	D Photoionization Detection (p. ) D. Identifies Sample by Number Sample Collection Method	óm) r						FILL HIGHLY ORGANIC ( SANDY CLAY	PEAT) DRIL	LING METH HSA LED BY WEBE			
EXPLANATION ST	SPLIT- BARREL AUGER  THIN- WALLED TUBE  CONTINUOUS SAMPLER	∏ cc	OCK ORE O COVER	ŖΥ		SAND GRAVEL SILTY CLAY	N:81	CLAYEY SAND	LOG	J. C	AWTOLD DE ELEVATION (FT. AMSL)		
DE	EPTH Depth Top and Bottom of Sc EC. Actual Length of Recovered	mple	•		1	CLAYEY SILT			LOC	ATION OR (	GRID COORDINATES		

KERR-McGEE CORPORATION KM SUBSIDIARY				HENDERSON NUMBER 2-19						
	rology Dept S&EA Division	IKWr-					<del>,</del>	<del></del>	NUMBE	R 1-C-19
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	ОИ	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO. В В В В В В В В В В В В В В В В В В В	DEPTH	PLE REC.	REMARKS OR FIELD OBSERVATIONS
45	SAND/GRANELS ANDIS			Sm/ GM						TEOTZ RETURNS _
	SOFT WOIST			CL						TO GO' - CONVERTED TO -
-										PC-19 -
EXPLANATION	,	ppm)  JS	OCK CORE NO RECOVE	ERY		GRAPHIC  CLAY  SILT  SAND  GRAVEL  SILTY CLAY  CLAY  SILTY  CLAY  SILT	LOG LEGI	BRIS L HIY GANIC (PEAT) T AY AY AYEY NDD	ORILLING MET  HSA  DRILLYED BY  UE 136  OGGED BY  T. G  EXISTING GRA	F 7 of T

FLUSI7	KERR	-McGEE CORP	ORATION
MOUNT	HYDF	ROLOGY DEPAR	RTMENT
	MONITORING	WELL INSTALL	ATION DIAGRAM
Protective Pipe		Casing Cap V	ent ? Yes No
Yes 🔲 🛚 No 🗇		Lock ? Yes [	
Steel PW	<del></del>		Yes No
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. xInches
Yes No No	100000	DEDTH	DRILLING INFORMATION:
		DEPTH FROM	I. Borehole Diameter= Inches.
Concrete	Ft. (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No No Revert Bentonite Water Solid Auger Hollow Stem Auger A. Was Outer Steel Casing Used? Yes No No No No No No No No No No No No No
Company (Donatority Count Min			i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder		}	1. Type of Casing: PVC Galvanized Teflon
Other:			Stainless Other
			Couple Other
		10	3. Type of Well Screen: PVC Galvanized
			Stainless Teflon Other
Bentonite Seal	2.5 Ft. 8		4. Diameter of Casing and Well Screen:
Pellets Slurry		12.5	Casing Inches, Screen Inches.
		14.)	5. Slot Size of Screen:
Filter Pack	2.5 Ft.	:}	6. Type of Screen Perforation: Factory Slotted
Above Screen		•	Hacksaw Drilled Other
		15	7. Installed Protector Pipe w/Lock: Yesi No
FILTER PACK MATERIAL			WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing   Air Surging (Air or Nitrogen)   Other
		1	2. Time Spent on Well Development ?
Silica Sand		}	/
Washed Sand 🗌 📗	<u> 45 Ft에 (됨.)</u>		3. Approximate Water Volume Removed ? 106 Gallons
Pea Gravel 🗌			4. Water Clarity Before Development? Clear   Turbid  Opaque
Other:	-	:	5. Water Clarity After Development? Clear D
Sand Size 5-12			Turbid Opaque
Sand Size		60	6. Did Water have Odcr? Yes No D
Dense Phase Sampling Cu	P 79 5.	:}	7. Did Water have any Color? Yes No 🗹
Bottom Plug		1 4 0 70	If Yes, Describe
Yes No Overdrilled Material		) <u>(a).29</u>	WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill	Ft.		During Drilling 22' Ft. Date 4/2/98
Grout Sand		102	Before Development 19.89 Ft. Date 4/17/98
Caved Material 🗹		J WW	After Development (9.89) Ft. Date 4/17/98
Other:	-		
Driller/Firm WE然E	N	Drill Rig Type MoBL	LE B-61 XHB Installed 4/6/98
Drill Crew LEE ROBE	ERISON	Well No. PC-	Kerr-McGee Hydrologist J. (RAWFOR)

	RR-McGEE CORPORATION KM SUBSICION Irology Dept S&EA Division				LOCATION HEND!	er 80~	', ^	N.		BORING NUMBER PC-21		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	TYPE	DEPTH		REMARKS OR FIELD OBSERVATIONS		
	SAND; SILTY SAND; GRAVEL COMMON; LT. TAN-BROWN; WELL-GRADED; SLI, MOIST		CLASS.							- - - -		
5 -	GRAGE ZONE C 5-6'	00000										
- - - - 15 —	SAND AS ABONE	5000	GM							- - - -		
_ _ _	SAND AS ABOVE; BECOMPY MOIST TO SATURAGED	0 0	<b>V</b>	<sup>22</sup> 29 34		1	X	17	1121	·		
20 —	SAND AS ABOVE	0,000	Sm-	2				25		- - - - - - -		
- - 30 —	SINOS AS TABOLE	0 0 0 P		<sup>3</sup> 34 42		2		24,5	111'	SAMPLE - COURTED - AT ~ 30'		
33, <b>s</b> —	SILTY CLAY; LT. MODEH-BROWN; MOD PLASTIC MUDDY CREEK	2	CL							-		
- - -	TO 35'					3	X	36.5		-		
NO TYF	Water Table (Time of Boring) D Photoionization Detection (ppm) D. Identifies Sample by Number						DEB FILL HIGHL ORGA	RIS .Y .NIC (PEAT)	DATE DRILLED  4/13/91  DRILLING METHORITHED BY	8 1 of 1		
EXPLANATION	BARREL CONTINUOUS	ROCK CORE NO RECOVE	RY		SAND GRAVEL SILTY CLAY		SAN CLA CLA SAN	VAEA		CEED DE ELEVATION (FT. AMSL)		
	EPTH Depth Top and Bottom of Sample EC. Actual Length of Recovered Sample	in Feet			CLAYEY SILT				LOCATION OR	GRID COORDINATES		

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pine ------- Casing Cap Vent 2 Yes No Yes V No ----Lock? Yes M No Weep Hole? Yes 🔲 No 🗌 Steel W PVC Surveying Pin ? --Concrete Pad \_\_\_\_\_Ft. x \_\_\_\_Ft. x \_\_\_\_Inches Yes 🗍 No 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 8 Inches. FROM **RFLOW** TOP OF Concrete Ft 2. Were Drilling Additives Used? Yes No 17 GRADE CASING Revert Bentonite Water Solid Auger Hollow Stem Auger 3. Was Outer Steel Casing Used? Yes \ No \ Cement/Bentonite Grout Mix Depth= to Feet. Yes 🗸 No 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 9.5 Ft. 94Lb. Bag Cement & I.Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple V Glue-Couple Other 3. Type of Well Screen: PVC Galvanized Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Pellets Slurry Casing Z Inches, Screen 2 Inches. 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No No 14.2 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand /\_\_\_\_/ Minutes/Hours 20 Ft. Washed Sand 3. Approximate Water Volume Removed? 100 Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid V Opaque Other: \_\_\_\_ 5. Water Clarity After Development? Clear Turbid [ Opaque [ 8-12 Sand Size \_\_\_\_ 6. Did Water have Oder? Yes \ No \ No If Yes, Describe 7. Did Water have any Color? Yes No Dense Phase Sampling Cup Bottom Plug If Yes . Describe "No □ Yes 🗍 WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) During Drilling \_\_\_\_\_\_ Ft. Date \_\_\_\_\_\_4/13/98 Backfill Grout Sand Before Development 20.53 Ft. Date 4/17/98 Caved Material After Development 10,60' Ft. Date 4/17/98 Other: \_\_ Driller/Firm Pabenton / WESER Drill Rig Type B-61 HOX Date Installed Kerr-McGee Drill Crew L. ROBERTSON/ R. MONTUFAR Well No.

Hydrologist

ASPAINT / ROAD GRANK   SCHASS	SOIL BORING LOG KM-5655-B										
INTHOLOGIC DESCRIPTION  SO SILT SAND ANALL  SAND SISTY SAND W. L. ALANG)  SAND AS ABONE, SATURAND  SAND AS ABONE, SATURAND  SAND AS ABONE, SATURAND  10  SAND AS ABONE, SATURAND  15  SAND AS ABONE, SATURAND  15  18  SILTY SAND CLAY 'RECOMMY BROWN, MARCH SALL PLANE		NENN-WICKEE CONPONATION		,			رده	, NV	/	BORING NUMBE	PC-24
ASPANT / ROAD GRANK   1/4    SAMO / SILTY SAMO WELL-GRANK)   1/4    SAMO AS ABONE; SATIRATED   1/4    SAMO AS ABONE; SATIRATED   1/4    SAMO AS ABONE; SATIRATED   1/4    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   2/5    Water Table (24 Hour)   3/5    Water Table (24 Hour)   2/5    Water Table (24	IN	LITHOLOGIC DESCRIPTIO	Z GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	PER	PID (ppm)	NO.				REMARKS OR FIELD OBSERVATIONS
SAND AS AGARE, SATINATED   Water Table (24 Hour)	,	ASPHALT / ROAD GRAVEL				_					
The Brilled   Section	<b>'</b>	SAND/SILTY SAND W/ GRA	URL; "O	1							4
Some as again fraction of Boring)  PID Photoionization Detection (ppm)  NO. Mentifies Sample by Number  Some as again fraction for Boring)  PID Photoionization Detection (ppm)  NO. Mentifies Sample by Number  Montager  J. S. S. J. A. J. J. J. J. J. J. J. J. J. J. J. J. J.		- TAN-BROWN WELL-GR	anen'	1							+
SAND AS ABONE, SATURATED  SAND AS ABONE, SATURATED  SAND AS ABONE, SATURATED  185  20  SAND AS ABONE, SATURATED  185  SILTET/SANDT CLAY! ROZADISH-BROWN, Soli PLANTIC MUSOF, CREEK  TD 30'  Water Table (24 Hour)  V Water Table (11me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  MON. Videntifies Sample by Number  MON. Videntifies Sample by Number	_ ا	- SLI! MOIST		1							
SAND AS AGAIL; SATINATED  15 - SAND AS AGAIL; SATINATED  18.5 - SAND AS AGAIL; SATINATED  18.5 - SAND AS AGAIL; SATINATED  18 SILTY/SANDY CLAY: READING GRAWN, SLI, PURETIC AMONG CREEK  20 - JOHN CLAY: READING GRAWN, SLI, PURETIC AMONG CREEK  20 - JOHN CLAY: READING GRAWN, SLI, PURETIC AMONG CREEK  21 - JOHN CLAY: READING GRAWN, SLI, SLI, SLI, SLI, SLI, SLI, SLI, SLI	3-										
SAND AS AGAIL; SATINATED  15 - SAND AS AGAIL; SATINATED  18.5 - SAND AS AGAIL; SATINATED  18.5 - SAND AS AGAIL; SATINATED  18 SILTY/SANDY CLAY: READING GRAWN, SLI, PURETIC AMONG CREEK  20 - JOHN CLAY: READING GRAWN, SLI, PURETIC AMONG CREEK  20 - JOHN CLAY: READING GRAWN, SLI, PURETIC AMONG CREEK  21 - JOHN CLAY: READING GRAWN, SLI, SLI, SLI, SLI, SLI, SLI, SLI, SLI		_	0	1				Ä			-
SAND AS ADONE; SATINATED   SAND AS ADONE; SAND AS		SAND AS MARKE	1.5	.							-
SAND AS ABONE; SMINATED	10-		0.5	GM							$\exists$
TO 30'  Water Table (24 Hour)  Water Table (24 Hour)  Water Table (15-14)  Water Table (24 Hour)  Water Table (15-14)  Water Table (15-			00	ļ							4
185 - 10 - SAND AS ABOVE; SATURATED  185 - 1		-	200	,				100			-
185		- GRAVEL @ 13-14	600	; ,							
185	15.		0. 0.			<u> </u>					_
185  20  SAND AS ABOVE; SMILLARD  20  21,5  11  20  21,5  21  20  21  20  20		4	1	1				iş.			-
SAND AS AGOVE; SATURATED  1		-	(0)	. 1							
SAND AS AGOVE; SMINATED  25  28  SILTY/SANDY CLAY! REDDISH-BROWN; SLIP PLANSING MANON; CREEK  7D 30'  Water Table (24 Hour)  V Water Table (11me of Boring) Photoionization Detection (ppm) NO. Identifies Sample by Number  1 20 21,5 1.11'  20 31,5 1.4'  CL  GRAPHIC LOG LEGEND  DATE DRILLED  4/14/98  DRILLING METHOE  HIGHY RED  HIG	18.5				1						
SAND AS ABOVE; SMTUNATED  21,5  11  21,5  11  21,5  11  21,5  11  21,5  11  21,5  11  21,5  11  21,5  11  21,5  11  21,5  11  21,5  21,5  21,5  21,5  21,7  21,5  21,5  21,7  21,5  21,7  21,5  21,7  21,5  21,7  21,5  21,7  21,5  21,7  21,5  21,7  21,5  21,7	20.		1, 19	1			ļ.,		20		
25  28  SILTY/SAND CLAY: REDDISH-BROWN; SLIVE CL  TD 30'  Water Table (24 Hour)  V Water Table (11me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  REAPHIC LOG LEGEND  A 14 98 DRILLING METHOE  CLAY  BORNEY FILL  DATE DRILLED  4 14 98 DRILLING METHOE  HIGHLY  HI		- SAND AS ABOVE; SATURATA	£0	2	ļ		'			1.1	-
25 - 28 SILTY/SAMM CLAY: REDDISH-BROWN; SU! PLASTIC MUDDY CREEK SU! CL 2 30 31.5 1.4'  TD 30' - 2 30 31.5 1.4'  Water Table (24 Hour)  V Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  PLASTIC MUDDY CREEK SUIT CL  GRAPHIC LOG LEGEND DATE DRILLED  4 14 98 DRILLING METHOE DRILLING METHOE  HIGHLY MICHAEL SAMPLE DRILLING											GROUNDWATER _
28  SILTY/SANDT CLAY : RESAUN; SLI' PLASTIC MUDDY CREEK  TD 30'  Water Table (24 Hour)  V Water Table (11me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  RESAURATE DEBRIS											SAMPA -
Water Table (24 Hour)  ☐ Water Table (11me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ GRAPHIC LOG LEGEND ☐ DATE DRILLED ☐ HGHIY ☐ DEBRIS ☐ FILL ☐ DEBRIS	25	_	0	-							COLLEGIO C -
Water Table (24 Hour)  ☐ Water Table (11me of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ SILTY/SAMM CLAY! READISH-BROWN; INC.  ☐ GRAPHIC LOG LEGEND ☐ DATE DRILLED ☐ HGHIY ☐ DEBRIS ☐ FILL ☐ DEBRIS								20			~25'
Sci' PISSIC MUDD'S CREEK  TD 30'  Water Table (24 Hour)  ✓ Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number	1 25	8	- 6	<u>'</u>	******************************		`				
Water Table (24 Hour)  ☐ Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  ☐ PID Photoionization Detection (ppm) NO. Identifies Sample by Number  ☐ CLAY ☐ DEBRIS FILL DRILLING METHOD  ☐ CLAY ☐ DEBRIS FILL DRILLI		SIET / STIZE ELAY . TOESTISH	10.3	CL							–
Water Table (24 Hour)  ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	30		1		<del>                                     </del>		2			1.4'	
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  DRILLING		70.30							<i>31</i> , S		-
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND		_				-					_
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND											<u> </u>
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND							1				_
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND		_				-					_
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  DRILLING METHOD  OR APPRICATE TO TOG LEGEND  DRILLING METHOD  DRILLING		-									
Water Table (24 Hour)  Value Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number  Water Table (24 Hour)  CLAY  CLAY  DEBRIS DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND  H 1 4 98  DRILLING METHOD  OR APPRIC TOG LEGEND	-						<u> </u>		- 10	ATE DBU LED	PAGE
Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number										1 4	1 .
NO. Identifies Sample by Number		PID Photoionization Detection (p	pm)			CLAY			D	RILLING METH	HOD
SPLIT- BARREL  AUGER  ROCK CORE  ROCK CORE  CLAYEY LOGGED BY	z	NO. Identifies Sample by Number TYPE Sample Collection Method	er			SILT	$\cong$	HIGHLY ORGANIC	(PEAT) D		SA
AUGER AUGER CORE CLAYEY SAND	15	✓ cour				SAND		SANDY CLAY		WE	BEL DRIG.
TELE ORATE CONTROL	PLANA	BARREL					CLAYEY  SAND  CLAYEY				T. RCED
WALLED SAAADIED RECOVERY NO CLAY	X	WALLED CONTINUOUS   NO			1		EXISTING GRADE ELEVATION (FT. AMSL)			DE ELEVATION (FT. AMSL)	
TOBE INTERIOR		DEPTH Depth Top and Bottom of Sample			1		LOCATION OR GRID COORDINATES			GRID COORDINATES	

Charles A	KERR-McGEE CORPO	
FLUSTMOUNT	HYDROLOGY DEPARMONITORING WELL INSTALL	
Protective Pipe/		
Yes \ \No \		ent? Yes No
Steel RVC	Weep Hole?	1
Surveying Pin\?	Ft.	
Yes No		Ft. xFt. xInches
	DEPTH DEPTH	DRILLING INFORMATION:
Concrete	FROM BELOW TOP OF GRADE CASING	1. Borehole Diameter= Inches. 2. Were Drilling Additives Used? Yes □ No ☑
		Revert 🗌 Bentonite 🗍 Water 🗍 Solid Auger 🗍 Hollow Stem Auger Д
	<b>•</b> [ ]	3. Was Outer Steel Casing Used? Yes 🗌 No 🗹
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes No No		4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to 94Lb. Bag Cement &	10 Ft.	WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite		I.Type of Casing: PVC 🛛 Galvanized 🗌 Teflon 🗌
Powder Other:		Stainless Other
		2. Type of Casing Joints: Screw-Couple ☑ Glue- Couple ☐ Other
	10	3. Type of Well Screen: PVC 🖟 Galvanized 🗌
	T	Stainless Teflon Other
Bentonite Seal	2.6 Ft. 🕷	4. Diameter of Casing and Well Screen:
Pellets Slurry 🗌	12.6	Casing Z Inches, Screen Z Inches.  5. Slot Size of Screen: 0.020
Filter Pack		6. Type of Screen Perforation: Factory Slotted
Above Screen	<u>2,4</u> Ft.	Hacksaw Drilled Other
	15	7. Installed Protector Pipe w/Lock: Yes 🗌 No 📝
		WELL DEVELOPMENT INFORMATION:
		1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		Air Surging (Air or Nitrogen) Other
Silica Sand		2. Time Spent on Well Development ?
Washed Sand		Minutes/Hours
Pea Gravel		<ul><li>3. Approximate Water Volume Removed ? <u>100</u> Gallons</li><li>4. Water Clarity Before Development ? Clear </li></ul>
		Turbid  Opaque
Other:		5. Water Clarity After Development? Clear 🗹
Sand Size 8-12		Turbid Opaque
	<u>  30                                 </u>	6. Did Water have Odcr? Yes No [2]
Dense Phase Sampling Cup	<b>↑</b> _ } →	7. Did Water have any Color? Yes No
Bottom Plug -	Ft.{	If Yes • Describe
Yes No	13/2	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	1, 2	Water Level Summary (From Top of Casing)
Grout Sand		During Drilling 18,5' Ft. Date 4/14/98
Caved Material	130,2	Before Development 19.90' Ft. Date 4/17/98
Other:		After Development 19.90' Ft. Date 417/98
Driller/Firm Robertsw /	WEBER Drill Rig Type B-6/	$H_{\rm DX}$ Date installed $4/14/98$
		Kerr-McGee
Drill Crew L. ROBERTSON	R. MONTHEAL Well No. PC-Z	4 Hydrologist — T. RED

RERR-McGEE CORPORATION KM SUBSIDIARY KM C LLC				LOCATION  HENDA	enson	, <b>^</b>	V	BORING NUMBER PC-28			
LITHOLOGIC DESCRIPTION	1 - (2)	SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	TYPE TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS		
SAMO AS AGNE; COLUR CHA	WAL TO DE	Sm-Gm  CL			1		20 21.5'	1.0 '	MOTE: BORING PAVOLLED - PSUNDANT WATER - FOR SAMPLING -  GROUNDWATER SAMPLE COLLEGED -  © 15'		
Water Table (24 Hour)  Water Table (Time of Boring) Photoionization Detection (ppr ID. Identifies Sample by Number (PE Sample Collection Method  SPLIT- BARREL  THIN- WALLED TUBE  CONTINUOUS SAMPLER	ROCK CORE	RY		CLAY SILT SAND GRAVEL		DEBI FILL HIGHL' ORGAI SAN CLA	RIS D  ( (PEAT) D  IDY  Y YEY	HSA RILLED BY  WEGO	<b>g</b> / of /		
	LITHOLOGIC DESCRIPTION  ASPHAUT / ROAD GRAVEL  SAND; SILTY SAND; GRAN  OKINSONAL TO COMMON; WAR  GRADED; SLI', MOIST; LT  BROWN  SAND AS ABOVE; COURT CHA  LT. TAN  SILTY CLAY; LT. KADISH-TAN; S  PLASTIC MUDOT CREE  TO 20'  SPLIT- BARREL  AUGER  THIN- WALLED  CONTINUOUS  CAMPIED  CONTINUOUS  CONTINUOUS  CAMPIED  CONTINUOUS  CAMPIED  CONTINUOUS  CAMPIED  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS  CO	LITHOLOGIC DESCRIPTION  ASPHALT / ROAD GRAVEL  SAND: SILTY SAND: GRAVEL  CKASUNAL TO COMMEN WALL-  GRADED: SLI, MOIST; LT. TAN-  BROWN  SAND AS ABOVE; COLUN CHANKE TO  LT. TAN  SILTY CLAY; LT. KRADISH-TAN; SLI.  PLASTIC MUODT CREEK  TO 20'  ROCK  ROCK  CORTINUOUS  SPLIT.  BARREL  AUGER  ROCK  CONTINUOUS	LITHOLOGIC DESCRIPTION  ASPHAUT / ROAD GRAVEL  SAND; SICTY SAND; GRAVEL  CLASSINA TO COMMEN WELL- CRADED; SLI, NOST; LT. TAN- BROWN  SAND AS AGOVE; COLUM CHANKE TO  LT. TAN  SILTY CLAY; LT. MADIN-TAN; SLI. PLASTIC MUDOT CACCK  TO 20'  Water Table (24 Hour)  A Water Table (27 Hour)  A Water Table (26 Hour)  A Water Table (27 Hour)  A Water Table (28 Hour)  A Water Table	LITHOLOGIC DESCRIPTION  LITHOLOGIC DESCRIPTION  SOIL FEB	LITHOLOGIC DESCRIPTION  LITHOLOGIC DESCRIPTION  SOND SOIN PRED BLOWS SOIN PRED CLASS.  SAMO GRANDL SAMOL SAMOL CLASS.  SAMO AS ABOVE, COLON CHANGE TO CAMBRIAN TO COMMENT SELL.  AND AS ABOVE, COLON CHANGE TO CAMBRIAN MOOT CREEK  TO 20'  Water Table (24 Hour)  Woter Table (Time of Boring) PROTOCOLOGIC TO CLAY  WALLED CONTINUOUS  NO CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  SILTY CLAY  CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  AND CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  SILTY CLAY  CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  SILTY CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  SILTY CLAY  SILTY CLAY', CT. READISH-TAW; SLI.  SILTY CLAY  SILTY CLAY  SILTY CLAY  CARPHIC I  SILTY CLAY  SILTY CLAY  CARPHIC I  SILTY CLAY  SILTY CLAY  CARPHIC I  SILTY CLAY  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  SILTY CLAY  CARPHIC I  CARPHIC I  SILTY CLAY  CARPHIC I  CARPHIC I  SILTY CLAY  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I  CARPHIC I	LITHOLOGIC DESCRIPTION  LITHOLOGIC DESCRIPTION  SONS SILTY SAND; GRAVEL  CLASS.  SAND SILTY SAND; GRAVEL  CLASS.  SAND AS AGOVE, COLUMN CHANE TO  LT. TAN  SILTY CLAY; LT. READISH-TAN; SLI.  ANSTR. MUDDY CLOSEK  TO 20'  LT. TO 20'  CLASS.  CL  GRAPHIC LOG LE  CLAY  SILTY CLAY; LT. READISH-TAN; SLI.  ANDOY CLOSEK  TO 20'  CLAY  SILTY CLAY; LT. READISH-TAN; SLI.  ANDOY CLOSEK  TO 20'  CLAY  SILTY CLAY; LT. READISH-TAN; SLI.  ANDOY CLOSEK  TO 20'  CLAY  SILTY CLAY; LT. READISH-TAN; SLI.  ANDOY CLOSEK  TO 20'  CLAY  SILTY CLAY; LT. READISH-TAN; SLI.  ANDOY CLOSEK  TO 20'  CLAY  SILTY CLAY  SILTY CLAY; LT. READISH-TAN; SLI.  ANDOY CLOSEK  TO 20'  CLAY  SILTY CLAY  SILTY CLAY  SILTY CLAY  ANDOY CLAY  SILTY CLAY  SILTY CLAY  SILTY CLAY  SILTY CLAY  AND CLAY  SILTY CLAY  GRAPHIC LOG LE  GRAPHIC LOG LE  GRAPHIC LOG LE  GRAPHIC LOG LE  GRAPHIC LOG LE  GRAPHIC LOG LE  SILTY  SAND  SILTY  GRAPHIC LOG LE  GRAPH	LITHOLOGIC DESCRIPTION    So	UITHOLOGIC DESCRIPTION    So	LITHOLOGIC DESCRIPTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  NO. E DEPTH REC.  ASPHALT / RODO GRANGE  SOLUTION  NO. E DEPTH REC.  SAND SLITY SAND; SANDEL  CARROLD; SULL PIST; LT. TANK  AROUND  SILTY CLAY; LT. RADISH-TAN; SULL  LT. TAN  SILTY CLAY; LT. RADISH-TAN; SULL  ALSTIC  MUSTIC MUSTOT CARREL  TO 20'  CARROLD SANDEL  SAND CLAY  SILTY CLAY; LT. RADISH-TAN; SULL  ALSTIC  MUSTOT CARREL  TO 20'  CARROLD SANDEL  SAND CLAY  SILTY CLAY; LT. RADISH-TAN; SULL  ALSTIC  MUSTOT CARREL  TO 20'  CARROLD SANDEL  GRAPHIC LOG LEGEND  AND CLAY  BERNILLED  JULIE SANDE BY Number  PORTING THAN SAND  CARREL  SAND  SANDY  LEGEND  JULIE SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  SAND  CARREL  CORCE  SAND  CARREL  CORCE  CORCE  SAND  CARREL  CORCE  CORCE  CRESTING GRAPHIC LOG LEGEND  JULIE SAND  CLAY  CARREL  JULIE SAND  CLAY  CARREL  CORCE  CORCE  CRESTING GRAPHIC LOG  CLAY  CARREL  CARREL  JULIE SAND  CLAY  CARREL  CORCE  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CLAY  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG  CRESTING GRAPHIC LOG		

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F. 4.4	KERR	-McGEE CORPO	ORATION
FLUSH	HYDF	ROLOGY DEPAR	RTMENT
mount	MONITORING	WELL INSTALL	ATION DIAGRAM
Protective Pipe		Casing Can Ve	ent ? Yes No
Yes 🔲 🔪	·	Lock ? Yes	1
Steel PVC Surveying Div 2	Ft.		
Surveying Pin ?		Concrete Pad	Ft. xFt. xInches
· · · · · · · · · · · · · · · · · · ·	U. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	DEPTH	DRILLING INFORMATION:
′ \		} FROM	I. Borehole Diameter= 8 Inches.
Concrete	Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No 💟
		3,,,,,,,,	Revert Bentonite Water
			Solid Auger 🗌 Hollow Stem Auger 🗹
	•		3. Was Outer Steel Casing Used? Yes ☐ No ☐ ☐
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No 🗌			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement &	6 Ft.		I. Type of Casing: PVC Galvanized Teflon G
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
			Couple Other
· · · · · · · · · · · · · · · · · · ·	<b>+</b>	<b>\</b>	3. Type of Well Screen: PVC Galvanized
	<b>T</b>		Stainless Teflon Other
Bentonite Seal	2 Ft. ₩ ₩	}	4. Diameter of Casing and Well Screen:
Pellets Slurry		✓	Casing 2 Inches, Screen Inches.
	<del>                                      </del>		
Filter Pack	2 Ft.	- ****	6. Type of Screen Perforation: Factory Slotted
Above Screen _			Hacksaw Drilled Other
		10	7. Installed Protector Pipe w/Lock: Yes No
		1	WELL DEVELOPMENT INFORMATION:
		{	I. How was Well Developed? Bailing 🗌 Pumping 🗹
CU TED DAOK MATERIAL		}	Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand 🖸			// Minutes/Hours
Washed Sand 🗌 _	9.5 Ft. ( ) = ::		3. Approximate Water Volume Removed ? 100 Gallons
Pea Gravel [			4. Water Clarity Before Development? Clear
		.{	Turbid Opaque
Other:			5. Water Clarity After Development? Clear 📝
Sand Size Siz			Turbid Opaque
04.10 0.120	→	19.5	6. Did Water have Oder? Yes No
	-   -   -	(-(-)-	If Yes, Describe SUGHT HYDROCARSON
Dense Phase Sampling Cup	Ft.{	.}	7. Did Water have any Color? Yes No
Bottom Plug Yes No No	{ <del>                                    </del>	100	If Yes , Describe
		₹20	WATER LEVEL INFORMATION:
Overdrilled Material Backfill	T ;		Water Level Summary (From Top of Casing)
Grout Sand 1			During Drilling /3' Ft. Date 4/16/98
Caved Material		122	Before DevelopmentFt. Date
Other:			After Development $7.00$ Ft. Date $5/n/98$
		<b>5</b> 7 ,	1.1.2
Driller/Firm WCREW		Drill Rig Type B-C	Date Installed 4/23/98
Drill Crew L. Pas	MICALI	Well No. 70-2	Kerr-McGee
Drill Oles - 100	CI(1XM)	Well No. 100	Hydrologist J. (RAWFOR)

KERR-McGEE CORPORATION Hydrology Dept S&EA Division					HEN?	15/5	a)	7	U BORING PC-31					
EPTH IN	LITHOLOGIC DESCRIPTIO	S GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			IL SAM	\PLE		R	EMARI	(S OR	. N.C
FEET				6'	(ppm)	NO.	TYPE	DEPTH	1 R	EC.	FIELD	ORZEN	VATIC	
4	ASTHOT ROAD GRAVEL	25	-											
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-	SILY SAND BRU-	20)												
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	INDURATED SAND/GRAVE CONGLOMESTE WELL GRA	2067	اد										( <u>@</u>	
	ANGULAR-SA STRONG CEMENT	80.5			_							- 24		_
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	SANDSTONE TAN-THIBRN U FOOR GRADED DENSE 3	1F9 51Uty 1975	<del>.</del>		<u> </u>									
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<b>Y</b>	,				RAPHIC L				DATE DR	,	X	PAGE /	of (	
PI	D Photoionization Detection (pi	pm)		1	CLAY		DEBR FILL		DRILLING	METH		·		
NC Z TYF		r			SILT	$\cong$	HIGHLY ORGAN	IC /DEATI	DRILLER					
	71			1	SAND		SANI			EBE	EL			
EXPLANALION	SPLIT- BARREL AUGER	ROCK		1	GRAVEL		CLAY	1	LOGGED	BY	LAWTI	νυ () 		
ž E	THIN CONTINUOUS	NO	·nv	1	GRAVEL SILTY CLAY		JANI	1	EXISTING		DE ELEVAT		AMSL)	
	TUBE . SAMPLER	RECOVE	:КҮ						LOCATIO	N OP (	GRID COO	SDINATE		
I DE	EPTH Depth Top and Bottom of So EC. Actual Length of Recovered			1 1177	CLAYEY SILT				LOCATIC	M OK (	241D COO	COUNT   E	,	

		RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI				LOCATION	velso	14 a		BORING PC 31		
DE	PTH N	HTHOLOGIC DESCRIPTION			UNIFIED SOIL		<u> </u>		SOIL S		<u> </u>	REMARKS OR	
	ET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	PTH	REC.	FIELD OBSERVATIONS	
	_	SAND GRAY BRN - TAN		.0.								No RETURNS -	
		CRS GR W/ GRAVELS										DESCRIPTION FROM-	
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5	ъ <u> </u>	50' MUDDI CREEK		12 3									
ا	_	Sicty CLAY GEN GY to		1/1	CC							_	
		MOIST to DEY LAMINAT	ED 15 _										
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	<b>Y</b>	` ,				f	RAPHIC L				PRILLED 21/9	PAGE 2 of 2	
	PIC NC	Photoionization Detection (pp	om)						DEBRIS ILL	DRILL	ING METH		
NO	TYP		•				SILT		ighly Rganic (Peat		SA ED BY		
ATI	$\bigvee$	SPLIT-	RC	OCK			SAND		ANDY LAY	1	JEZE	R	
EXPLANATION		DARREL	CC	ORE			GRAVEL		CLAYEY	Loca	ED BY	WFORLY	
Ê		THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RE	O COVER	Y		SILTY			EXIST		PE ELEVATION (FT. AMSL)	
	DE RE	PTH Depth Top and Bottom of Sa C. Actual Length of Recovered S	mple Sample in	Feet			CLAYEY SILT			LOCA	TION OR (	GRID COORDINATES	

Flush				DRATION
MOUNT			DEPAR NSTALL	ATION DIAGRAM
Protective Pipe/				ent ? Yes No [
Yes No N			ock ? Yes [	
Steel PVC	1			Yes No
Surveying Pin ?	Ft.			
Yes 🛮 🔻 No 🗆	-\	_	oncrete Pau	Ft. xInches
	U.V. 6	DEP		DRILLING INFORMATION:
Concrete	Ft. (2)	BELOW GRADE	FROM TOP OF CASING	1. Borehole Diameter= Inches.  2. Were Drilling Additives Used? Yes No Kare Revert Bentonite Water
	1000			Solid Auger Hollow Stem Auger
	T }			3. Was Outer Steel Casing Used? Yes 🗌 ` No 🗵
Cement/Bentonite Grout Mix				Depth=toFeet.
Yes No				4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.			WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder	$\top$			I.Type of Casing: PVC 7 Galvanized  Teflon
Other:				Stainless Other
				2. Type of Casing Joints: Screw-Couple Glue-Couple Other
		10.8		3. Type of Well Screen: PVC 🔯 Galvanized 🗌
		1010		Stainless Teflon Other
Bentonite Seal	' Ft <b>.</b> ₩ ₩			4. Diameter of Casing and Well Screen:
Pellets Slurry _				Casing 2 Inches, Screen 7 Inches.
	<del></del>	_13		5. Slot Size of Screen: , 120
Filter Pack	9 Ft.			6. Type of Screen Perforation: Factory Slotted
Above Screen				Hacksaw Drilled Other
		15		7. Installed Protector Pipe w/Lock: Yes No
				WELL DEVELOPMENT INFORMATION:
				I. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL				Air Surging (Air or Nitrogen)   Other
Silica Sand 💢				2. Time Spent on Well Development ?
•	3C' Ft.			/Minutes/Hours
Washed Sand 🗍 🔄	35 <u></u> ft  [3]::			3. Approximate Water Volume Removed ? <u>/00</u> Gallons
Pea Gravel [				4. Water Clarity Before Development? Clear   Turbid  Opaque
Other:				5. Water Clarity After Development? Clear
Sand Size 8-12		{		Turbid Opaque
	→	49.5		6. Did Water have Oder? Yes No
Daniel Dhave Carattan o			,	If Yes, Describe
Dense Phase Sampling Cup Bottom Plug	0.5 Ft			7. Did Water have any Color? Yes \( \sum \) No \( \bullet \)  If Yes, Describe
Yes No		50		
Overdrilled Material Backfill	Ft.			WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Grout Sand				During Drilling Ft. Date
Caved Material		50		Before Development 15 Ft. Date 4/2//98
Other:				After Development 15.60 Ft. Date 5/11/98
Driller/Firm WESFA	ENUMBALENTAL	Drill Rig Ty	pe MORUS	3-6 Date Installed 4/21/98
Drill Crew L. POLERTS		_	PC-	Kana-MaCaa

		RR-McGEE CORPORATION					LOCATION		`	BORING NUMBER PC-37		
_		Irology Dept S&EA Division	KMC		UNIFIED	DI OUE		enso,	N, NV.		MOWR	FR PC-37
DEP II FE	1	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	SOIL SA	—т	REC.	REMARKS OR FIELD OBSERVATIONS
		SAND/ SILTY SAND; OLL	, GRAVEL,	1.9								_
	-	LT. TAN-BRUNN; WELL-6	RADED ;	0								_
	ᅱ	GRAVEL ZONE @ 3-4'		000								_
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16		SAND AS ABOVE, GRAVEL Z	ort	-0								
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		SANDY SILT; DCC. GRAVE										
30		LT. GRAY-BROWN; SATUR	MA.	1.0								
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35	· —											
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П	•	Water Table (24 Hour)			*	G	RAPHIC I	LOG LE	GEND		DRILLED	PAGE
	V	. Water Table (Time of Boring	1)				CLAY		DEBRIS FILL	DRILL	27/98 ING METH	1 of 2
Ž	PII NC TYF	<ol> <li>Identifies Sample by Number</li> </ol>	pm) :r						HIGHLY ORGANIC (PEAT)	DRILL	Its A	
ATIC	$\nabla$	SPLIT-		ОСК			SAND		SANDY CLAY		W&&&	n onla.
EXPLANATION		BARREL AUGER		ORE		1	GRAVEL		CLAYEY SAND	1	T, N	
EX		THIN- WALLED TUBE CONTINUOUS SAMPLER		IO ECOVE	RY	1	SILTY CLAY			EXIST	TING GRAD	DE ELEVATION (FT. AMSL)
	DE R	PTH Depth Top and Bottom of Sc EC. Actual Length of Recovered	ample Sample ii	n Feet			CLAYEY SILT			LOCA	TION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KMCLLC				LOCATION	0445	. 1	. 13.1	BORING NUMBER PC-37			
DEP		irology Dept S&EA Division	M		UNIFIED	RI OWS		DENSO				
IN	I H	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	FIELD	PER 6"	PID (ppm)	NO.	TYPE	DEPTH		REMARKS OR FIELD OBSERVATIONS
40					CLASS.				F			
41		SILTY CLAY , LT. RESPISH-BI	www;	11					J. Million			
	-	SLI', PLASTIC MUDDY CR	EK		CL		_		H. Carlo		-	_
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T	Y	Water Table (24 Hour)		.L	1	0	RAPHIC I	LOG LE	GEI	ND C	DATE DRILLED	PAGE
	$\nabla$	Water Table (Time of Boring	) (				CLAY		DEB FILL	RIS [	4/27/9	78 2 of Z
NC	PI NO TYI	<ol><li>Identifies Sample by Numbe</li></ol>	om) r					$\overline{\Xi}$	HIGHL' ORGA	Y NIC (PEAT)	14 S	A
ATK	$\bigvee$	SPLIT-	R	ОСК		1	SAND		SAN	IDY Y	WEL	BEN DRIG.
EXPLANATION		DARKEL		ORE			GRAVEL		CLA SAN	YEY		RED DE ELEVATION (FT. AMSL)
ã		THIN- WALLED SAMPLER	N R	IO ECOVE	RY	1	SILTY			[		
	DE R	EPTH Depth Top and Bottom of Sc EC. Actual Length of Recovered	ample Sample ir	n Feet			CLAYEY SILT				LOCATION OR	GRID COORDINATES

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe ------- Casing Cap Vent? Yes No --Lock? Yes ♥ No □ Yes W No Weep Hole? Yes No No Steel D PVC Surveying Pin ? ~ Concrete Pad 2 Ft. x 2 Ft. x 2 Inches Yes $\square$ No D DRILLING INFORMATION: FROM 1. Borehole Diameter= 8 Inches. **BELOW** TOP OF Concrete 2. Were Drilling Additives Used? Yes No P CASING GRADE Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 📝 3. Was Outer Steel Casing Used? Yes No 🗹 Cement/Bentonite Grout Mix Depth= to Feet. Yes V No□ 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to Ft. WELL CONSTRUCTION INFORMATION: 94Lb. Bag Cement & 1. Type of Casing: PVC 📝 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple W Glue-Couple Other 10 3. Type of Well Screen: PVC D Galvanized Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Pellets V Slurry Casing 2 Inches, Screen 2 Inches. 5. Slot Size of Screen: 0.0ZD Filter Pack 6. Type of Screen Perforation: Factory Slotted 3,2 Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand | Z / Minutes/Hours 25 Ft. Washed Sand 3. Approximate Water Volume Removed? 90 Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: \_\_\_ 5. Water Clarity After Development? Clear Turbid [] Opaque [ 8-12 Sand Size \_\_\_ 6. Did Water have Oder? Yes \ No \ 41.8 If Yes, Describe 7. Did Water have any Color? Yes No No Dense Phase Sampling Cup Bottom Plug If Yes, Describe WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) Backfill During Drilling 17.0 Ft. Date 4/27/98 Grout Sand Before Development 23,45 Ft. Date 5/1/98 Caved Material After Development 25,10 Ft. Date 5/1 **√Other:**\_\_ / Wasy Drill Rig Type B-61 Date Installed Driller/Firm B. JULLUSON

Well No. FC-37

Drill Crew B. JOHNSON/R. MONTHAM

Kerr-McGee

Hydrologist

	JIL BURING LOG KM-5655-B  KERR-MCGEE CORPORATION KM SUBSIDIARY				LOCATION					Lagrica			
	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIAR				HEND	ER	رلاه	NV	BORING NUMBER PC 40			
DEPTH		19	≌	UNIFIED	BLOWS			SOIL	SAMPLE				
IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	ТШТ	DEPTH	REC.		IARKS OR BSERVATIONS	
				CLASS.	_			<u>-</u>					
	SAND, gravelly, mo	1 9 -11	3									_	
_	brn (10 y R 5/4). Con-		,			-							
	20-30% 1/4"-3/4" 9	ravel.	.Ø									-	
5-	Slightly 511ty (5%	) .	0									-	
	0'-10' W/ minor cob	bles -	.o.					1				_	
_	3/4" - 3"	1 -	0.									_	
	minor caliche ceme	1	ý. 0			-						_	
10-	throughout	١.	.ò.					1				<del></del>	
_	0-43' sand 15 f-		6									_	
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30 -		, 1	ó,							<del> </del>	1,500		
_	32-35 cobbles	ω/	0.0			<u>  -                                   </u>				1 1 1 1 2	osuminia tu		
-	caliche cement		6 P			-	Table 6		i Markara Salah Sa			-	
35			6.0°	)	ľ					AL STATE		<del>-</del>	
35-			0:0			<u> </u>				- 1.11			
-			.0.			_	13.4					-	
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			<i>o</i> .°.			i i i					.****	-	
- T	Water Table (24 Hour)					RAPHIC L			<u></u>	Z7/Z8		AGE 1 of Z	
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		) nm)				CLAY	3.5	DEBRIS FILL	DRIL	LING METH		1 0 2	
NO	<ol><li>Identifies Sample by Numbe</li></ol>	r ·r				SILT		HIGHLY ORGANIC	(PEAT)		GER		
5 -	71 -	/ <b>(19</b> 47)			j.	SAND		SANDY	DKIL	LED BY	EREP		
X	SPLIT- BARREL AUGER	ROC	CK RE						1.00	GED BY	EBER		
EXPLANATION XI					1	GRAVEL		CLAYE SAND	3.1	E.	J.K	rish	
ш	WALLED CONTINUOUS SAMPLER	NO REC	) COVER	RY		SILTY		1.	EXIS	TING GRAD	DE ELEVATION	(FT. AMSL)	
DI	EPTH Depth Top and Bottom of So	لات ample			141	CLAYEY			LOC	ATION OR	GRID COORDI	NATES	
R	EC. Actual Length of Recovered	Sample in I	Feet	· .	الانت	J.C.	<u>ب</u> 			Signal I	tal NAVI		

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM SUBSIDIARY			LOCATION HENDERSON					BORING NUMBER PC 4-0			
DEPTI			UNIFIED	BLOWS			SOIL SA	MDIF	<del></del>			
IN FEET	LITHOLOGIC DESCRIPTION	1 1 1 1 1	SOIL FIELD CLASS.	PER 6"	PID (ppm)	1	DEF		REC.	REMARKS OR FIELD OBSERVATIONS		
	SAND, gravelly	0										
	-	. 0	5W		_					. –		
43	SAND, silty, grau	از بالم				-				_		
45-	<b>⊣</b>	11-1-			<u> </u>							
	modyell brn. Mod 511+ (30%) and 1	1.1.1			_					· .		
	granules (1/4")	9-4	5M		_							
50_	sand grains GR-SA	and	-									
"	f-vc											
	_				_							
		:								_ _		
-	-	0.1										
56	SILT, slightly cla	yey, IIII					6			Water samples _ taken when -		
	yell gry (548/1),	no sd	ML		_					hole completed		
60-	-	.	' '		_					17, 2, 3		
00-	- TD 60' AUGER						60'	۱۱ ی -	100	_		
	TO GI' Splitspor	on			_					_		
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-		5 1 25 5	10.50				* 1 - 7 - 4 * 1 - 7 - 7 * 1 - 7 - 7			era garanari		
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										_		
					77 1	2.5						
1 1	▼ Water Table (24 Hour)				GRAPHIC			1	E DRILLED 27 / Z8	3-98 Z of Z		
11	<ul> <li>✓ Water Table (Time of Borin Photoionization Detection (p. Photoionization Detection)</li> </ul>	opm)					DEBRIS ILL		LING METH	100		
	NO. Identifies Sample by Numb YPE Sample Collection Method	er			SILT		IGHLY ORGANIC (PEA	DRIL	TED BY	UGER		
ATIC	SPLIT-	ROCK			SAND		SANDY			WEBER		
EXPLANATION	BARREL	CORE			GRAVEL		CLAYEY	LOG	GED BY	KRISH		
EX	THIN- WALLED SAMPLER SAMPLER	S NO RECOVE	RY	1	SILTY		<u></u>	EXIS	STING GRAD	DE ELEVATION (FT AMSL)		
	TUBE  TUBE  DEPTH Depth Top and Bottom of S							LOC	CATION OR	GRID COORDINATES		
	REC. Actual Length of Recovered	Sample in Feet		لسلام	ı əiri (17)	. L.	111.11					

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM --- Casing Cap Vent,? Yes 🗹 No 🗍 Protective Pipe --Yes M ---Lock? Yes V No No $\square$ Weep Hole? Yes 🗌 No 🗌 Steel D PVC Surveying Pin ? --Ft. x / Ft. x 3 Inches Concrete Pad Yes 🗌 No 🔽 DRILLING INFORMATION: 1. Borehole Diameter= \_\_\_\_ Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No 🗹 Concrete CASING GRADE Revert | Bentonite | Water | Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes No [] Depth= to Feet. Cement/Bentonite Grout Mix Yes W No 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & I.Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other \_ Other: 2. Type of Casing Joints: Screw-Couple D Glue-Couple Other 9.1 3. Type of Well Screen: PVC 🗹 Galvanized 🗌 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: 2,9 Ft. Pellets Slurry Casing 2 Inches, Screen 2 Inches. 12.0 5. Slot Size of Screen: 0,020 Filter Pack 6. Type of Screen Perforation: Factory Slotted 3,0 Ft. Above Screen Hacksaw Drilled Dother 7. Installed Protector Pipe w/Lock: Yes W No 15.0 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand 5 / Minutes/Hours 40.0 Ft. Washed Sand 3. Approximate Water Volume Removed? 100 Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: \_\_\_ 5. Water Clarity After Development? Clear Turbid [ Opaque [ Sand Size 8-12 6. Did Water have Oder? Yes No No 55 If Yes. Describe 7. Did Water have any Color? Yes . No ... Dense Phase Sampling Cup Bottom Plug If Yes, Describe 55Z Yes 🗍 No 🖂 WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) Backfill During Drilling \_\_\_\_\_ \_\_\_\_ Ft. Date \_ Grout 🗌 Sand 🛭 Before Development 300/ Ft. Date 5/1/98 60.0 Caved Material After Development 30.01 Ft. Date 5/1/98 Other: Driller/Firm WEBER ENVIRONMENTAL Drill Rig Type MOBILE B-6 Date Installed 4-28-98 Kerr-McGee Drill Crew L. Robertson Well No. PC-40 E.J. KRISH Hydrologist

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM SUBSIDIARY				LOCATION HENDE	1 81.		BORING NUMBER PC-50			
DEPT		KMCLL U	)	JNIFIED	RI OWS	HENNE	,~~, 				
IN FEE	LITHOLOGIC DESCRIPTIO	Z GRAPH	ဋီဗို	SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.	SOIL SAN		REMARKS OR FIELD OBSERVATIONS	
1	ASPHALT / ROAD GRAVEL	Œ (	65					Í			
5.	- SAND/SILTY SAND; GRAN - COMMON TO ABD; LT. TO - BRUNN; WELL-GRADED	11.	0							- - - -	
10 -			0 0 0	abla						- - - - -	
15			0000	SM- GM							
25	GRAVEL ZONE @ 28'		300. ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '								
30		- Q	1000 0 10 10 10 10 10 10 10 10 10 10 10							SILT NOTED ON	
	- CLAYEY SILT; LT. REDOISE - SATURATED; MUD. PLASTIC MUDDY CA	P-TAN;		мH						AUGUS WHEN _ WELL (NSTOLLED; NOT _ APPARENT WHEN _ ORILLING _	
	▼ Water Table (24 Hour)					RAPHIC L			H3019	PAGE  of 2	
NO	✓ Water Table (Time of Boring PID Photoionization Detection (plant) NO. Identifies Sample by Number Sample Collection Method	pm)						DEBRIS FILL HIGHLY DRGANIC (PEAT)	DRILLING METH	5 <i>A</i> )	
EXPLANATION	SPLIT- BARREL AUGER	ROCI	K E		1	SAND GRAVEL		SANDY CLAY CLAYEY SAND	LOGGED BY	N DRIG.	
Ä	THIN- WALLED TUBE  CONTINUOUS SAMPLER  DEPTH Depth Top and Bottom of Sor REC. Actual Length of Recovered	RECC	OVER	Y	1	SILTY CLAY CLAYEY SILT			EXISTING GRAI	GRID COORDINATES	
	REC. Actual Length of Recovered	Jumple in Fe	ee1		<u></u>						

	KERR-McGEE CORPORATION	KM SUBSIDIARY  KMCLLC				LOCATION		2 /	,	J BORING NUMBER PC-SO			
DEP1	Hydrology Dept S&EA Division				RI OWS		YEAL SI		IL SAN		)/NOL		
IN	LITHOLOGIC DESCRIPTION	N N	LOG	UNIFIED SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE 36	DEPT		C.	REMARKS OR FIELD OBSERVATIONS	
40	_		1					Ī				_	
42, 9				<b>~</b> H								-	
	- SILTY CLAY; LT. GREENSH - W. V. SLI. PLASTIC	HITE;	W	CL									
-	TO 44'						1	X	44 45.5	- 1	1'	_	
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					ļ					DATE DRII	LLED	PAGE	
	<ul><li>✓ Water Table (24 Hour)</li><li>✓ Water Table (Time of Boring</li></ul>	~)				RAPHIC L	OG LE			4/30		1	
z	V Water Table (Time of Boring PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method	pm)				CLAY SILT			Y NIC (PEAT)	DRILLING	H.	s x)	
EXPLANATION	SPLIT- BARREL AUGER	ROC	CK RE		1	SAND GRAVEL				LOGGED	BY	BER OPIC.	
EXPL	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO REC	OVER	RY	1	GRAVEL SILTY CLAY		SAN		EXISTING	GRAD	RELD DE ELEVATION (FT. AMSL)	
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample in F	eet			CLAYEY SILT			<u>.</u>	LOCATIO	N OR	GRID COORDINATES	

FLUSH	KERR-McGEE	CORPORATION
NOUNT		DEPARTMENT
, 	MONITORING WELL I	INSTALLATION DIAGRAM
Protective Pipe	C	Casing Cap Vent ? Yes 🗌 No 🗌
Yes 🗌 \No		ock ? Yes 🗌 No 🗋
Steel 🗌 🗡 🗸 🗆		Veep Hole? Yes 🗌 No 🗌
Surveying Pin ?		Concrete PadFt. xFt. xInches
Yes 🗌 ′No 🔲	70.35	DRILLING INFORMATION
	DEF	PTH FROM I. Borehole Diameter= 8 Inches.
Concrete	Ft. BELOW GRADE	TOP OF CASING 2. Were Drilling Additives Used? Yes No
		Revert Bentonite Water
		Solid Auger Hollow Stem Auger 🖽
	<b>1</b>	3. Was Outer Steel Casing Used? Yes ☐ No ☑
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes No		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.	WELL CONSTRUCTION INFORMATION
3-5 Lb. Bentonite Powder		I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Other:		Stainless Other
		Couple Other
	6	3. Type of Well Screen: PVC 🕡 Galvanized 🗌
	T	Stainless Teflon Other
Bentonite Seal	3,8 Ft.	4. Diameter of Casing and Well Screen:
Pellets 🗹 Slurry 🗌	19,8	Casing 2 Inches, Screen 2 Inches.
511. 5. 1		5. Slot Size of Screen: 1020
Filter Pack Above Screen _	2 Ft.	6. Type of Screen Perforation: Factory Slotted
		Hacksaw Drilled Other
	11.8	7. Installed Protector Pipe w/Lock: Yes No
		WELL DEVELOPMENT INFORMATION  1. How was Well Developed? Bailing  Pumping  V
		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		2. Time Spent on Well Development ?
Silica Sand 🗌		——————————————————————————————————————
Washed Sand		3. Approximate Water Volume Removed ? <u>95</u> Gallon
Pea Gravel		4. Water Clarity Before Development? Clear
		Turbid Opaque
Other:		5. Water Clarity After Development? Clear
Sand Size 8-12		Turbid Opaque
	41.8	6. Did Water have Odcr? Yes No []
Dense Phase Sampling Cup	1	7. Did Water have any Color? Yes No
Bottom Plug -	, Ft-{	If Yes , Describe
Yes ☐ No ☑	42 0	
Overdrilled Material Backfill	2 Ft.	Water Level Summary (From Top of Casing)  During Drilling
Grout Sand		, , , , , , , , , , , , , , , , , , , ,
Caved Material 🗌	144	Before Development Ft. Date
Other:		After Development $\frac{12.45^{\circ}}{}$ Ft. Date $\frac{$/1/98}{}$
Driller/FirmOHUSUN /	WRBER DALK. Drill Rig Ty	ype <u>8-6) HOX</u> Date Installed 4/30/98
/	TUKAN/MADDOX Well No.	Kerr-McGee
JULIA / WENT	INIMIN W BODOX MEIL MO"	PC-50 Hydrologist T. NEED

SOIL BORING LOG KM-5655-B  KERR-McGEE CORPORATION Hydrology Dept S&EA Division					LOCATION HENT	X-725	OIL	) NV	BORIN	G PC-53
DEP1	H LITHOLOGIC DESCRIPTION		UNIFIED SOIL FIELD	PER			SC	OIL SAMPL	E	REMARKS OR FIELD OBSERVATIONS
FEE		8-	CLASS.	6'	(ррііі)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	- SILHY SANO RO BRN	14:1:								_
	TO TAN GRAVELS	0			Piloto de Caraciones de Caraci				-	_
5.	- WELL GRADED DRY									
		1.1.								_
		₹ 6'								
_	_	1:3	1							_
10.	_	01.								
	-	1.0								_
										_
45	- Silty SAND WI GRAVER - BROWY CLAYEY MOIST	1.								_
	DACK BIZWA	1.1.					The second second			_
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re	<del>-</del>									
		0								
		.0.			_					_
ZS	= SAWN SPLTY BRN-DK	0:								
	Ban Sh Charley	: 6			_					_
	TR GULAVELS CRS-VCRS GIZ	0								
,	- Sat	1.								_
30										30 5/44
	SILTY Cay ARN GY tO OFF WH	IN.								32' 7/mDDy -
	- LAW FIRM	M			_		V			<del>-</del>
		7/1/2								TO 35' -
	_				<del></del>					-
							-			-
H	▼ Water Table (24 Hour)	1	<u> </u>		RAPHIC I	LOG LE	GE		TE DRILLED	
	√ Water Table (Time of Boring)				CLAY		DEB FILL	RIS DR	LLING MET	7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	PID Photoionization Detection (ppm) NO. Identifies Sample by Number TYPE Sample Collection Method					$\square$	HIGHI	Y ANC (DEAT)	15A	
ATIOI		DOC!		1	SAND			10.	WEB6	ER-
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE		1	GRAVEL			VEV LO	GGED BY	ZAWFOTO
Ä	WALLED	NO RECOVE	ΡV	1	SILTY CLAY		JAI,	•		DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample		ĸΙ		CLAY CLAYEY SILT		_	LO	CATION OR	GRID COORDINATES

		· · · · · · · · · · · · · · · · · · ·	
[CASING PROFESTOR]	NEDD.	-McGEE CORP	ORATION
FLUSIA ,		ROLOGY DEPAR	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			ATION DIAGRAM
, · · · · · .	MONTIONING		. /
Protective Pipe		Casing Cap V	ent? Yes W No 🗌
Yes DA No		Lock ? Yes [	
Steel V PVC	1 7		
Surveying Pin ?	Ft.		
Yes Wo	[	Concrete Pad	
100   NO	1000	P. V.	DRILLING INFORMATION:
		DEPTH FROM	I. Borehole Diameter=Inches.
Concrete	Ft.	BELOW TOP OF	2. Were Drilling Additives Used? Yes No
_		GRADE CASING	Revert Bentonite Water
			Solid Auger  Hollow Stem Auger
			3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No No			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement &	Ft.		I.Type of Casing: PVC Galvanized Teflon G
3-5 Lb. Bentonite Powder		}	
Other:			Stainless Other Other Glue-
		8	Couple Other   3. Type of Well Screen: PVC Galvanized
	<del>                                      </del>	}	- ' ' '
Bentonite Seal	ાં_ 👹 ី		Stainless Teflon Other
	3Ft. 🔘 🔘	(	4. Diameter of Casing and Well Screen:
Pellets Slurry	`↓ 👹 ី		Casing Inches, Screen Inches.
	<del>                                      </del>	]	5. Slot Size of Screen: ,OZO
Filter Pack	オー関節	}	6. Type of Screen Perforation: Factory Slotted
Above Screen _	<del></del> ∫  Ft.		Hacksaw Drilled Other
		. 2	7. Installed Protector Pipe w/Lock: Yes No
	<u> </u>	<u> </u>	-
		1	WELL DEVELOPMENT INFORMATION:
			1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		}	Air Surging (Air or Nitrogen) Other
	나 사람	}	2. Time Spent on Well Development ?
Silica Sand	1 / 1 日:		/   Minutes/Hours
Washed Sand	19.5Ft./ 日:	·{	3. Approximate Water Volume Removed ? (O) Gallons
Pea Gravel 🗌			4. Water Clarity Before Development? Clear
Other:			Turbid Opaque D
			5. Water Clarity After Development? Clear
Sand Size 8-12		.]	Turbid Opaque
	→	32.5	6. Did Water have Oder? Yes No
	-   -   -		- If Yes, Describe
Dense Phase Sampling Cup	OC Ft.	3	7. Did Water have any Color? Yes 🗌 No 🕡
Bottom Plug		100	If Yes , Describe
Yes No 🗌		33	- WATER LEVEL INFORMATION:
Overdrilled Material		İ	Water Level Summary (From Top of Casing)
Backfill	Ft.	1	During Drilling Ft. Date
Grout Sand	1	1 20	Before Development 18 Ft. Date 5/4/98
Caved Material [		J <u>35</u>	1
Other:			After Development 19.54 Ft. Date 5/12/98
			-//
Driller/Firm 1 EBEN		Drill Rig Type MARI	(UE $\beta$ 6] Date Installed $5/4/98$
			4 4 6
Drill Crew LEE KORENT	Son	Well No. PC-5	3 Hydrologist J. (DOWN)
1			

	RR-McGEE CORPORATION KM SUBSIC drology Dept S&EA Division	uc			LOCATION MEUT	>ERS	30K	コとし	J BORING PC-54		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
_	ASSHAT + ROAD GROVEUS	8750								_	
		0								<del>-</del>	
_	Sidy SAND FOR BROWN	1)	SWI								
5—	WI GRAVELS WELL GRADED	1.0	7		<u> </u>						
_	DRy	1; ]	gm							_	
_		٠.٠								_	
-		1. j								_	
10-											
		10.					1			_	
_		1 1									
15-		1.0%									
_											
_	SARTO BROWN - RO BROWN	- 0								_	
	TR GRAVEL SD CRS - V	1::								_	
Ж <u> —</u>	CRS SATURATED	0 4			_	-				_	
_		1.0	Sin		-					-	
		1. 5	JMC								
JS-		6,								_	
-										-	
-		1.0			_					-	
30	]									- -	
JU -	-	15			_					-	
_										-	
-	Sut 5. 1 1 821	tit	r								
35-	SILT TAN to LIT BILN									T/MC 34' -	
-	moist Tooky araben		10.0.2							-	
-	SILTY CLAY ROBRN VERRY		ML							39.5' T/MUDDY -	
40	SU PLASTIC	74	+CL	<u> </u>	20.400.00	100.11	X	IDA	TE PRILLE/O	PAGE	
	` '				RAPHIC I			<del>"</del>   ~	5/4/9	8 1 of 1	
l P	<ul> <li>✓ Water Table (Time of Boring)</li> <li>ID Photoionization Detection (ppm)</li> <li>O. Identifies Sample by Number</li> </ul>			1	CLAY		FILL HIGHL	1	KLING METH		
	PE Sample Collection Method					$\simeq$	ORGA	NIC (PEAT)	ILLED BY	2 <i>F</i> )	
NATI		ROCK		1	SAND		SAN	LC	GGED BY	BEN DRIC.	
EXPLANATION X	J BARKEL III	CORE			GRAVEL		CLA SAN	ID	J, c	RAWFORD	
		NO RECOVE	RY		SILTY CLAY			EX	ISTING GRA	DE ELEVATION (FT. AMSL)	
D	EPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample	in Feet		1	CLAYEY SILT			L.C	CATION OR	GRID COORDINATES	

HYDROLOGY DEPARTMENT   MONITORING WELL INSTALLATION DIAGRAM	FLUSIT	KEDD	-Magee	COPRO	PATION
Protective Pips					
	men 1	MONITORING	WELL I	NSTALL	ATION DIAGRAM
Steel   VC   Ft.   Weep Hole? Yes   No   Ft. x   Inches   Surveying Print?   Ft. x   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches   DFTH   Inches	Protective Pipe		Ca	asing Cap Ve	nt ? Yes No
Concrete   Pad   Ft. x   Inches   DEPTH   No   DEPTH   No   DEPTH   Inches   DEPTH   Inches   DEPTH   Inches   DEPTH   Inches   DEPTH   Inches   DEPTH   Inches   DEPTH   Inches   Inches   DEPTH   Inches   Inches   DEPTH   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inch	Yes No			· · ·	
Surveying Pink?	Steel   XVC	1	 /-W	eep Hole? Y	′es
DEPTH	/ \	Ft.	C	oncrete Pad	Ft v Ft v Inches
Concrete	Yes No		,		ļ
SELOW TOP OF CASING   SELOW TOP OF CASING   SELOW TOP OF CASING   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection   Selection		<u>0</u> . ∇ <del>0</del> . 0	DEP		1
Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions Water to   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Salions   Sali	Concrete	Ft. 9 1		TOP OF	2. Were Drilling Additives Used? Yes No 🛭 Revert No Bentonite Nater No
Depth					· <del></del>
5.5 Callons Water to 94Lb. Bag Cement & Ft. 3-5 Lb. Bentonite Powdor Other:    Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainle	Cement/Bentonite Grout Mix				
Stallons Water to 94Lb. Bag Cement & Ft. 3-5 Lb. Bentonite	Yes ☑ No 🗌				4. Borehole Diameter for Outer Casing Inches.
1.Type of Casing: PVC	t : <b>.</b>	F+ \	}		
Stainless   Other   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry   Cherry					
Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Ft.   Sentonite Seal   Sentonite Seal   Ft.   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Sentonite Seal   Seal Seal Seal Seal Seal Seal Seal Seal			ţ		
Bentonite Seal  Pellets   Slurry	Other:				
Stainless   Teflon   Other			1.		
Sentonite Seal   Surry		<del>                                     </del>	}-4		-
Pellets   Slurry	Bentonite Seal	J 🔘 🗎			
Filter Pack Above Screen  Ft.    Siliter Pack Above Screen   Ft.	Pallate IZ Clusay	- <b>/</b>		4	<u>~</u> '
Filter Pack Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack After Development Pack  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack  Filter Pack After Development  Filter Pack After Development  Filter Pack  Filter Pack After Development  Filter Pack After Development  Filter Pack  Filter Pack After Development  Filter Pack  Filter Pack After Development  Filter Pack  Filter Pack After Development  Filter Pack  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development  Filter Pack After Development		<b>→</b> 🕅 🕅	8	*****	
Hacksaw   Drilled   Other   To. Installed Protector Pipe w/Lock: Yes   No   WELL DEVELOPMENT INFORMATION:   I. How was Well Developed? Bailing   Pumping   Air Surging (Air or Nitrogen)   Other	Filter Pack		}		
7. Installed Protector Pipe w/Lock: Yes \  No \   WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing \  Pumping \   Air Surging (Air or Nitrogen) \  Other \   Sand Sand \   Pea Gravel \   Other: \   Sand Size \   Dense Phase Sampling Cup \   Overdrilled Material Backfill \   Grout \  Sand \   Caved Material \   Caved Material \   Other: \   Drill Rig Type \   Drill Rig Type \   WBUCK BUIL DEVELOPMENT INFORMATION:  WELL DEVELOPMENT INFORMATION:  WELL DEVELOPMENT INFORMATION:  WELL DEVELOPMENT INFORMATION:  Wairing \   Water Clarity After Development? Clear \   Turbid \   Opaque \   6. Did Water have Odcr? Yes \   No \   WATER LEVEL INFORMATION:  Water Level Summary (From Top of Casing)  During Drilling \  16 \   Before Development \   Ft. Date \  5/12/9\( 8 \)  Drill Rig Type \   Drill Rig Type \   Drill Rig Type \   Date Installed \   Selection \   Date Installed \   Other: \   Drill Rig Type \   Date Installed \   Date Installed \   Jy 18	Above Screen _	Ft.			
WELL DEVELOPMENT INFORMATION:   I. How was Well Developed? Bailing   Pumping   Air Surging (Air or Nitrogen)   Other   Other			10		
Air Surging (Air or Nitrogen)   Other    Sand Sand			1-10-		
Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size   Silica Sand Size Silica Sand Size   Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Size Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Silica Sand Sand Silica Sand Silica Sand Silica Sand Sand Sand Sand Sand Sand Sand San	44		{		I. How was Well Developed? Bailing 🗌 Pumping 🔟
2. Time Spent on Well Development?  Washed Sand	CH TED DACK MATERIAL		-		Air Surging (Air or Nitrogen) Other
Washed Sand			}		2. Time Spent on Well Development ?
Washed Sand	Silica Sand				•
A. Water Clarity Before Development? Clear   Turbid   Opaque   Swater Clarity After Development? Clear   Turbid   Opaque   Swater Clarity After Development? Clear   Turbid   Opaque   Swater Clarity After Development? Clear   Turbid   Opaque   Swater have Odcr? Yes   No   Swater have Odcr? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater have any Color? Yes   No   Swater ha	Washed Sand 🗌	28 Ft   F3 ::			
Sand Size 8 7 2 5. Water Clarity After Development? Clear Turbid Opaque Go. Did Water have Odcr? Yes No Ft. Did Water have any Color? Yes No Ft. Did Water have any Color? Yes No Ft. Did Water have any Color? Yes No Ft. Did Water have any Color? Yes No Ft. Did Water have any Color? Yes No Ft. Did Water Level Summary (From Top of Casing)    Water Level Summary (From Top of Casing)	Pea Gravel 🗌		1		
Turbid  Opaque  6. Did Water have Odcr? Yes  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  System  No  Ft.  Sys	Other:				· · · ·
Dense Phase Sampling Cup O(S Ft. Bottom Plug Yes   No   No   WATER LEVEL INFORMATION:  Overdrilled Material Backfill S Ft. During Drilling 16 Ft. Date 5/4/98  Caved Material   Other: Driller/Firm WERKA Drill Rig Type MB(CE BC) Date Installed 5/4/98	0:15		}		
Dense Phase Sampling Cup O'S Ft.  Bottom Plug Yes No  Overdrilled Material Backfill Grout Sand Caved Material Caved Material Other:  Driller/Firm WERK  Drill Rig Type MBCCE BC1 Date Installed  T. Did Water have any Color? Yes No  WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) During Drilling 16 Ft. Date 5/4/98  Before Development Ft. Date  After Development 12.0 Ft. Date 5/12/98	Sand Size _S \		7110	-	
Yes No No No No No No No No No No No No No		1	34.5		If Yes, Describe
Yes No No No No No No No No No No No No No	Dense Phase Sampling Cup	O Ft !	}		7. Did Water have any Color? Yes 🗌 No 🔃
Overdrilled Material Backfill Backfill Backfill Backfill Backfill Backfill Backfill Backfill Backfill Backfill Buring Drilling 16 Ft. Date 5/4/98 Before Development Ft. Date After Development 12.0 Ft. Date 5/12/98  Driller/Firm WEREN Drill Rig Type MBCCE BC1 Date Installed 5/4/98	Bottom Plug	<del>V(S</del> "} <u> </u>			If Yes • Describe
Backfill   3   Ft.   During Drilling   16   Ft. Date   5/4/98	Tes [] NO [		7 <u>- 25</u> _		
Grout Sand Sand Sand String String Ft. Date String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String String	1	3 Ft.	1		
Other: After Development 12.0 Ft. Date 5/12/98  Driller/Firm WEREN Drill Rig Type MB(GBG) Date Installed 5/4/98	Grout Sand		1 28		
Driller/Firm WEREN Drill Rig Type MOBICE BC1 Date Installed 5/4/98	Caved Material [		) <u>30                                    </u>	=	
Driller/Firm WERKER Drill Rig Type MOBICE BC1 Date Installed 5/4/98  Kerr-McGee - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - Conference - C	Other:				Alter Development / LiV   Ft. Date 3//V170
Kerr-McGee Region	Driller/Firm WERER		Drill Rig Ty	pe <u>M&amp;B</u> (	$\angle B \angle I$ Date Installed $\angle 5/4/98$
Drill Crew Let JOSEPISON Well No. 1C 34 Hydrologist J. Waw 1914)	Drill Crew LEE KORER	<b>ISON</b>	Well No.	PC54	Kerr-McGee Hydrologist J. Cowfolu

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KMCLLC					HENDERSON, NV BORING NUMBER PC- SI					G PC - 5(-
				RI OWS		ENSO				
DEP1 IN FEE	I LITHOLOGIC DESCRIPTIO	62.	SOIL FIELD	PER 6"	PID (ppm)	NO.	TYPE TYPE	L SAMPL DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	BERM MAJERIAL:	17.	CLASS.	6		110.	<u>                                     </u>		REC.	
2	- SAND WI GRAVEL									
_	SAND W/ SILT AND OCC.		-, 2`							_
_	MED. TAN-BROWN; SLIL MO	757	;; 5m		<u> </u>					-
5.	GRAVE E 5-6'	0.5 0.50	) )				100			
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	COFFEE GROWDS WHEN	192	SM							
35	- FINES ARE RWSED OUT				<u></u>					-
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	-	0 -	3		_					_
IT	▼ Water Table (24 Hour)			G	RAPHIC I	OG LE	GENI	U 1	TE DRILLED	PAGE
	∀     Water Table (Time of Boring)	)			CLAY		DEBRI: FILL	S DRI	/20/ 4	78 1 of 2
N N	PID Photoionization Detection (p NO. Identifies Sample by Numbe Sample Collection Method	r r		1	SILT	$\Box$	HIGHLY ORGANIC	(PEAT) DRI	HS A	9
EXPLANATION	SPLIT-	ROCK			SAND		SAND CLAY	Y	WE	BEN DRIG.
PLA	BARREL	CORE			GRAVEL		CLAYE SAND	Y LO	J, R	
E	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RECO	VERY		SILTY CLAY			ı		DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sc REC. Actual Length of Recovered	ample Sample in Fe	et		CLAYEY SILT			LO	CATION OR	GRID COORDINATES

KERR-McGEE CORPORATION KM SUBSIDIARY					HENDERSON, NO BORING NUMBER PC-5				
	ydrology Dept S&EA Division	12m CLLC		DI OUE		· · · · · · · · · · · · · · · · · · ·			7236
DEPT IN	LITHOLOGIC DESCRIPTION	GRAPHIC	JNIFIED SOIL FIELD	PER	PID (ppm)	1	SOIL SAN		REMARKS OR FIELD OBSERVATIONS
FEET		0	CLASS.	6'	(11 /	NO.	DEPIR	n REC.	
40	- GRAVEL ZONE C 40-4	3' 000	an				ii.		-
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55.	CLAYEN SIUT - SIUTY CLAY	LT.	CL-			1.	/ 55	/	
	- TAN - DEIGE; SLI. PLASTIC		ML	ļ		'	56.5		_
58	CREEK								
	TO 58'								_
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H	▼ Water Table (24 Hour)		1		GRAPHIC	LOG LE	GEND	DATE DRILLED	1
	√ Water Table (Time of Boring)				CLAY		DEBRIS FILL	5/20)0	18 2 of 2
Z	PID Photoionization Detection (ppm NO. Identifies Sample by Number TYPE Sample Collection Method	n)		1	SILT		HIGHLY ORGANIC (PEAT)	H 5	SA
EXPLANATION	SPLIT- ALIGER	ROCK		1	SAND		SANDY CLAY	LOGGED BY	BER DRIG.
PLAN	BARREL AUGER	CORE			GRAVEL		CLAYEY SAND	_	T, REED
EX	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECOVE	RY		SILTY			EXISTING GRA	ADE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sam REC. Actual Length of Recovered Sci	iple ample in Feet			CLAYEY SILT			LOCATION OF	R GRID COORDINATES

FLUSH	HYDI	-McGEE CORF ROLOGY DEPA Well Instal	
Protective Pipe		Casing Cap	Vent ? Yes No No
Yes No		Lock ? Yes	
Steel   PVC	1		Yes No No
Surveying Rin ?	Ft.		
Yes No 🗆		Concrete Pa	dFt. xFt. xInches
_ \	DV P	DEPTH	DRILLING INFORMATION:
		FROM FROM	I. Borehole Diameter= Inches.
Concrete _	Ft.	GRADE CASING	2. Were Drilling Additives Used? Yes No
			Revert Bentonite Water
			_ Solid Auger   Hollow Stem Auger
			3. Was Outer Steel Casing Used? Yes \( \) No \( \)
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.	}	WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	<u> </u>	1	I.Type of Casing: PVC 🛛 Galvanized 🗌 Teflon 🗌
Powder		{	Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 🕡 Glue-
			Couple Other
	11,3	}	_ 3. Type of Well Screen: PVC 🖸 Galvanized 🗌
Bentonite Seal	↑ 🔘 🕷		Stainless Teflon Other
	Ft. 🛞 🛞	3	4. Diameter of Casing and Well Screen:
Pellets V Slurry	<b>√</b> 3,3 <b>₩</b> ₩		Casing Z Inches, Screen Z Inches.
			- 5. Slot Size of Screen: $O.020$
Filter Pack	1,5 Ft.	1	6. Type of Screen Perforation: Factory Slotted
Above Screen _		1	Hacksaw Drilled Dther
	4.8	<b>}_</b> 4-,&	7. Installed Protector Pipe w/Lock: Yes 🗌 No 🗹
			WELL DEVELOPMENT INFORMATION:
		}	I. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL			Air Surging (Air or Nitrogen)  Other
1		}	2. Time Spent on Well Development ?
Silica Sand	一, . / : 目:	}	/
Washed Sand 🗓 _	_50_Ft. \ = :	·\	3. Approximate Water Volume Removed ?~100 Gallons
Pea Gravel		1	4. Water Clarity Before Development ? Clear
_		.}	Turbid Opaque
Other:			5. Water Clarity After Development ? Clear
Sand Size _ 8-12		1	Turbid 🗹 Opaque 🗌
Janu Size	54,8	154.8	6. Did Water have Odor? Yes 🗌 No 🗹
		Feet Tagget	— If Yes, Describe
Dense Phase Sampling Cup	7_ Ft.{:	.}	7. Did Water have any Color? Yes No 🗆
Bottom Plug - Yes No No			If Yes , Describe
<u> </u>	155	1	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	7     7   Ft. J	1	Water Level Summary (From Top of Casing)
Grout Sand	3 1	1	During Drilling 7 Ft. Date 5/21/98
Caved Material	158	ز	Before DevelopmentFt. Date
Other:			After Development $\frac{7.93'}{}$ Ft. Date $\frac{6/15/18}{}$
Driller/Firm ROBENTSON	WESON DRIG.	Drill Rig Type B-6	$\frac{140}{2}$ Date Installed $\frac{5}{2}/98$
1			Kerr-McGee
Drill Crew L. ROBERTSON	M. POBESON	Well No. PC-	56 Hydrologist 7. REED

		TO M OSE CORREST TION	KM SUBSIDIARY			LOCATION				T	
		RR-McGEE CORPORATION Irology Dept S&EA Division	KMCLU			HEND	erso	ر∖∞	W	BORIN NUMBI	G ER <i>PC</i> - 58
DEP			i i	UNIFIED SOIL		PID		so	IL SAM	PLE	REMARKS OR
IN FEI		LITHOLOGIC DESCRIPTION	Z GRAPHIC LOG	FIELD CLASS.	PER 6"	(ppm)	NO.	ΓΥΡΕ	DEPTH	REC.	FIELD OBSERVATIONS
		BERM: SAND W/ GRAVEL	115	CLA33.			<u> </u>				
		- ,	يوني المراجع								
2	۶,	SAND W/ SILT; MED. BR						e sandelite			_
	-	SLI! MUIST; OCK, GRAVEL	10.1								_
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10	,—	GRAVEL ZONE @ 10-14'	000	an		<u> </u>					
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34		SILTY CLAY - CLAYET SILT; GERS	US H-WHITE NY	CL-	-	_					<del>.</del>
35		U. SLI. PLASTIC; MNOOY CRE	oz K	ML			1	X	35	1,5	
34	_	TD 36'			<b>-</b>		1		36.5	- 1,75	
	-					-					_
	_					-					_
h	Y	Water Table (24 Hour)	1	1	G	RAPHIC	LOG LE	GEN	ID I	DATE DRILLED	į
	$\nabla$	,	)			CLAY		DEB	RIS	5/21/0	
	PI	D Photoionization Detection (pp	om)		1						
Z	TYI	PE Sample Collection Method				SILT		ORGAN	IIC (PEAT)	DRILLED BY	7
ATIC		SPLIT-	ROCK			SAND		SAN CLA	DY	WER	en DRIG.
EXPLANATION		BARREL AUGER	CORE		1	GRAVEL		CLA'	Ti-	LOGGED BY	
EXP		THIN- CONTINUOUS			1			SAN	- 1		DE ELEVATION (FT. AMSL)
		TUBE CONTINUOUS SAMPLER	NO RECOVE	RY	1 77	SILTY CLAY			[		
		EPTH Depth Top and Bottom of So	ımple Sampla in Fast			CLAYEY SILT					GRID COORDINATES
L	"	EC. Actual Length of Recovered	sample in reet		1				l	~ 500 ′	EAST OF PC-56

		McGEE CORPO	
FLUSH MOUNT		OLOGY DEPAF Well install	ATION DIAGRAM
Protective Pipe		Casing Cap Ve	ent ? Yes No
Yes No No		Lock ? Yes [	] N₀ []
Steel   RVC	<del></del>	Weep Hole? `	Yes No 🗌
Surveying Pin ?	Ft.	Concrete Pad	Ft. x Ft. x Inches
Yes 🖸 No 🔽		_	DRILLING INFORMATION:
	U.Vo. D	DEPTH	I. Borehole Diameter= 8 Inches.
Concrete	Ft.	FROM BELOW TOP OF	2. Were Drilling Additives Used? Yes No
College		GRADE CASING	Revert Bentonite Water
			Solid Auger Hollow Stem Auger
			3. Was Outer Steel Casing Used? Yes No 🖸
Cement/Bentonite Grout Mix			Depth= to Feet.
Yes ✓ No 🗌			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to	Ft.		WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & _ 3-5 Lb. Bentonite			I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗍
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 🗹 Glue-
			Couple Other
	4.6		3. Type of Well Screen: PVC 🗹 Galvanized 🗌
Bentonite Seal			Stainless Teflon Other
	2.4 Ft. 🗱		4. Diameter of Casing and Well Screen:
Pellets V Slurry	<u> 17</u> ₩ ₩		Casing Z Inches, Screen Z Inches.
Filter Pack			5. Slot Size of Screen: 020 6. Type of Screen Perforation: Factory Slotted
Above Screen	0.8 Ft.		Hacksaw Drilled Other
		and the second second	7. Installed Protector Pipe w/Lock: Yes No
	17.8		WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping
			Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand 🔲			45 / 0 Minutes/Hours
Washed Sand 🗸 _	25 Ft. 3		3. Approximate Water Volume Removed? 80 Gallons
Pea Gravel			4. Water Clarity Before Development? Clear
_			Turbid Opaque
Other:			5. Water Clarity After Development ? Clear
Sand Size 8-/2			Turbid Dpaque D
Cand Cizo	32.8	32.8	6. Did Water have Oder? Yes No
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7. Did Water have any Color? Yes No V
Dense Phase Sampling Cup	Ft.{·		If Yes, Describe
Bottom Plug	33		
Overdrilled Material			<ul> <li>WATER LEVEL INFORMATION:</li> <li>Water Level Summary (From Top of Casing) ,</li> </ul>
Backfill	3 Ft.		During Drilling 13 Ft. Date 5/21/98
Grout Sand Caved Material	36		Before DevelopmentFt. Date
Other:			After Development 8,00 Ft. Date 6/15/98
Driller/Firm ROBERTSON	LIMBAA ABIZ F	Orill Rig Type <u>B-6/</u>	$40\times$ Date installed $5/21/98$
			Kerr-McGee
Drill Crew L. RUBERTSON	M. RUBRSON	Vell No. PC-S	8 Hydrologist T. REED

	RING LOG KM-5655-B	KM SUBSIDIA	ARY			LOCATION				<del>- 1</del>	
	RR-McGEE CORPORATION drology Dept S&EA Division	KMC		_		1+END	EN SI	رر 2	.1/	BORIN	G ER PC-59
DEPTH			Ü	UNIFIED	BLOWS		1		OIL SAMI	) C	
IN	LITHOLOGIC DESCRIPTION	N	GRAPHI 10G	SOIL FIELD	PER	PID (ppm)					REMARKS OR FIELD OBSERVATIONS
FEET			<u>8</u>	CLASS.	6'	(PP)	NO.	TYPE	DEPTH	REC.	TIELD OBSERVATIONS
-	BERM: SAND W/GRAVEL		\$.C.								
2 -	(2112)		- 🚣								-
	SAND W/ SIT; OCK. GRE MED. BROWN; WELL-CRAY	206D ;	ا فرز ا					\$ . E			-
5	sc1'. mo157		000								
-	GRAVEL @ 3-4'		1	SM				1			
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_			1.1								_
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ا الم			010								-
15-											
_	C. A. (A. A. A. A. A. A. A. A. A. A. A. A. A. A	^									_
_	SAND AS ABOVE; SATURDAY, OCC. GRAVEL	0;	10.00	SM							_
20—	0CC. 4/0.00C		6								
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25-			101			<b>-</b>					$\neg$
			10								
_								9 100			
-			6 1.								_
30 —	SANOY SILT; LT. BEIGE:	Cationaria	17			<u> </u>					_
	OCC FINE-MED. SAND	AICEATES									_
_				ML							
34 -	<i>C.</i>		W		+						-
35 —	SILTY CHAT; CLAYEY-SILT; GREEN-BEIDE; U. SLI' PLAS	MED- TIC	N	CL-							-
	MUDOT CREE	iC	M	ML							-
38 -			NV.	1			<u> </u>				
-	To 38'					_ `	1	X	38 39,5	1,4'	_
▼	Water Table (24 Have)		<u> </u>	1	G	RAPHIC L	OG IF	GFN		ATE DRILLED	PAGE
	,					CLAY					3 / of /
PII	D Photoionization Detection (pp D. Identifies Sample by Number	ım)						HIGHLY	D	RILLING METH	100 ≤ A
NO TYP	PE Sample Collection Method				1				` ' l'	RILLED BY	
A M	SPLIT-	RC	OCK ORE		1	SAND			10	OGGED BY	BER DRIG.
EXPLANATION	BARREL		JKE			GRAVEL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CLA' SAN	YEY D		REED
ŭ	THIN- WALLED TUBE CONTINUOUS SAMPLER	Nº RE	O ECOVEI	RY	1	SILTY CLAY			E		DE ELEVATION (FT. AMSL)
DE	EPTH Depth Top and Bottom of Sa	mple			1	CLAYEY SILT					GRID COORDINATES
R	EC. Actual Length of Recovered S	Sample in	Feet							-500'	WEST OF PC-56

FLUSH MOUNT	HYDR	-McGEE CORP	
<b>.</b> /	MUNIIUKING		
Protective Pipe			/ent ? Yes  No
Yes Nø	<b>→ ◆</b>	Lock ? Yes [	
Steel PVC	Ft.		Yes No
Surveying Pin?	<del></del> '"       <sub>-</sub> -	Concrete Pad	Ft. xFt. xFt. x
Yes 🗋 Nò 🔲	1000	DEPTH	DRILLING INFORMATION:
		FROM	1. Borehole Diameter= 8 Inches.
Concrete	Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No 🕡
			Revert Bentonite Water
			Solid Auger Hollow Stem Auger
	<b>†</b> }		3. Was Outer Steel Casing Used? Yes 🗌 No 🗹
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes 🗹 No 🗌			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.\		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	<del></del>		I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 📝 Glue-
			Couple Other  3. Type of Well Screen: PVC 📝 Galvanized 🗌
	12		Stainless Teflon Other
Bentonite Seal	_		4. Diameter of Casing and Well Screen:
Dellata EV OL E	Ft <b>.</b>		
Pellets V Slurry 🗌	<u> </u>		Casing 2 Inches, Screen 2 Inches.  5. Slot Size of Screen: , 020
Filter Pack			6. Type of Screen Perforation: Factory Slotted
Above Screen _			Hacksaw Drilled Other
			7. Installed Protector Pipe w/Lock: Yes No
	14.8		WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing ☐ Pumping ☑
			Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand 🗌			//
Washed Sand	_ <u>30_</u> Ft(기급::		3. Approximate Water Volume Removed ? // O Gallons
_			4. Water Clarity Before Development? Clear
Pea Gravel 🗌		}	Turbid Opaque
Other:			5. Water Clarity After Development? Clear
0101- 81-		}	Turbid Opaque
Sand Size 8-12	34.8		6. Did Water have Odcr? Yes 🗌 No 🖸
		l ———	- If Yes, Describe
Dense Phase Sampling Cup	7 Ft. ( )	}	7. Did Water have any Color? Yes No
Bottom Plug		1	If Yes , Describe
Yes No	135	{	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	<b>†</b>	1	Water Level Summary (From Top of Casing)  During Drilling Ft. Date Ft.
Grout Sand	<del>-                                    </del>	1	
Caved Material	138	<u></u> ز	Before DevelopmentFt. Date
Other:			After Development $9.14'$ Ft. Date $6/15/98$
Driller/Firm ROBERTSON	/ WESER DRIG.	Drill Rig Type <u>B-</u> 6/	$H_{0X}$ Date installed $5/22/98$
	***		Kerr-McGee
Drill Crew	Tuest	Well No. PC-5	19 Hydrologist T, REFO

		RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIARY			LOCATION HEN	Eilson	J, N	V BORING PC-40		
DEF II FE	4	LITHOLOGIC DESCRIPTION	NO GRAPHIC	UNIFIED SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	SOIL SAN		REMARKS OR FIELD OBSERVATIONS	
5		BERN MATERIAL  SILTY SAND W/ GRAVE  BEN-RD BRN WE  GRADED DRY	000	5. SM						MOBILE 13-LI - 8" HOLE -	
10		GRAVEL ZONE 7-8 MOIST								- - - - -	
2	_	SINTY SAND W/ GRAVE BROWN tO DK BROW WELL GRADED SAT	is in	5m							
3	0-	T/ SANDY SILT NO DETERMINED SANDY SILT V. LITE GRAVELLY IP V, SOFT	GRAY .	ML a						T/MUDDY GREEK -	
H	<i>b</i> ▼	Water Table (24 Hour)		11:1	G	RAPHIC L	OG LEG	END	DATE DRILLE	D PAGE	
EXPLANATION	PIL NO TYPE	Water Table (Time of Borin Photoionization Detection (p Identifies Sample by Numb	ROCK CORE S NO RECO			CLAY	DE SA FII	EBRIS LL GHLY GANIC (PEAT) ANDY LAY	LOGGED BY EXISTING GR	THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD  THOD	

T i	CONTONATION	M SUBSIDIARY KWG LUC			LOCATION HEND	-05v	J	NV	BORING PC-60		
DEPT	7		UNIFIED	BLOWS				SAMPLE			
IN FEE	LITHOLOGIC DESCRIPTION	GRAPHIC	UNIFIED SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	ш	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
45-	SILTY CLAY GREEN-GRA W/ SAN DARK ORANGE STRIATIONS SLI TO A PUBSTIC FIRM TO STIFF MOIST	lon /	CLASS				4	3-44	NOO %	75) 43'	
ION	Water Table (24 Hour)  Water Table (Time of Boring) PID Photoionization Detection (ppi NO. Identifies Sample by Number TYPE Sample Collection Method	m)					DEBRIS FILL HIGHLY ORGANIC	(PEAT) DRIL	269 LING METH HSA LED BY JEB	X 2 of 3	
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE			SAND GRAVEL		SANDY CLAY CLAYE' SAND	LOG	GED BX	AWFORD	
Ä	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECOVER	RΥ		SILTY CLAY					DE ELEVATION (FT. AMSL)	
	DEPTH Depth Top and Bottom of Sar REC. Actual Length of Recovered S	mple ample in Feet			CLAYEY SILT			LOC	ATION OR	GRID COORDINATES	

MONITORING	McGEE CORPO OLOGY DEPAR Well Install	
Protective Pipe		ent ? Yes No No
Yes O PVC O TO THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF THE TENT OF T	Lock ? Yes [   Weep Hole ? `	
Surveying Pin 1 Ft.		Ft. xFt. xInches
Yes No No		DRILLING INFORMATION:
	FROM	I. Borehole Diameter= Inches.
ConcreteFt.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used ? Yes No 🗌
		Revert 🗌 Bentonite 🗍 Water 🗹 Solid Auger 📗 Hollow Stem Auger 🗗
		3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix		Depth= toFeet.
Yes No No		4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to 94Lb. Bag Cement & O Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite		I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Powder Other:		Stainless Other
<u>+</u> ],  ;}		Couple Other  3. Type of Well Screen: PVC Galvanized
Bentonite Seal		Stainless Teflon Other
Ft. 🔘 🔘		4. Diameter of Casing and Well Screen:
Pellets   Slurry	_3	Casing Inches, Screen Inches.
Filter Pack		5. Slot Size of Screen: , O ( ) 6. Type of Screen Perforation: Factory Slotted
Above ScreenFt.		Hacksaw Drilled Other
	5	7. Installed Protector Pipe w/Lock: Yes No
		WELL DEVELOPMENT INFORMATION:
		1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		Air Surging (Air or Nitrogen) Other
Silica Sand		2. Time Spent on Well Development?
Washed Sand 3 5 Ft.		/Minutes/Hours  3. Approximate Water Volume Removed ?~100 Gallons
Pea Gravel		4. Water Clarity Before Development? Clear
		Turbid Opaque
Other: } =		5. Water Clarity After Development? Clear
Sand Size		Turbid ☐ Opaque ☐ 6. Did Water have Odcr? Yes ☐ No ☑
	39.55	If Yes, Describe
Dense Phase Sampling Cup 0.45 Ft.		7. Did Water have any Color? Yes No 🕡
Bottom Plug Yes No	40	If Yes , Describe
Overdrilled Material		WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill Ft.		During Drilling 7 Ft. Date 5/26
Grout Sand Caved Material	43	Before DevelopmentFt. Date
Other:	<del>- ( • • • • • • • • • • • • • • • • • • </del>	After Development $7.90$ Ft. Date $6/15/98$
	Drill Rig Type <u>Mobil</u>	E B-61 Date Installed 5/26/98
	Nell No. PC-C	Kerr-McGee

OUIL DO	OIL BORING LOG KM-5655-B													
	ERR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI		ر		HENDERSON NV					BORING PC- 62			
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.		DEPTH	PLE	REC.	REMARKS OR FIELD OBSERVATIONS		
2 - (0 - (5 - (2) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) - (3) -	SERM MATERIAL  GRAVELS SOND BRN - R DRY WELL CRADED  LOCALES 7-8  SM GRAVEL SMAN SU SILLY WELL GRADE  SU SILLY WELL GRADE		0 000 19 12 10 10 10 10 10 10 10 10 10 10 10 10 10	GM/ SM								AUUVIUM THICKNESS -		
3 <i>5</i> –	SICTY CLAY-SILT GR. SOFT BONG FIRM-STIFFS PLASTIC	7 9RN	77	CC				X	38-3	39	100%	7/MUDDY GEERLE 37' -		
EXPLANATION TAX	Water Table (24 Hour)	om) r R R R mmple	OCK ORE IO ECOVER	I RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILTY		DEBF FILL HIGHLY ORGAN SAN CLAY	RIS	DRILLI DRILLI LOGG	TING GRAD	OD		

<del></del>			
FLUSH	KERR-	-McGEE CORPO	DRATION
FLUSH mount		OLOGY DEPAR	i
Woole	MONITORING	WELL INSTALL	ATION DIAGRAM
Protective Pipe		Casing Cap Ve	ent ? Yes 🗌 No 🗍
Yes □ \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot \ndot		Lock ? Yes [	
Steel  \rightarrow \text{PVC}		Weep Hole?	Yes   No
Surveying Pily?	Ft.	Concrete Pad	Ft. xFt. xInches
Yes No .	U.V.	POV	DRILLING INFORMATION:
		DEPTH FROM	I. Borehole Diameter= Inches.
Concrete	Ft. Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used ? Yes No No Revert Bentonite Water Solid Auger Hollow Stem Auger
	1 1 1		3. Was Outer Steel Casing Used? Yes No No
Cement/Bentonite Grout Mix	·		Depth=toFeet.
Yes No No		·	4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	<del>-                                     </del>		I.Type of Casing: PVC 👉 Galvanized 🗌 Teflon 🗌
Powder Other:			Stainless Other
Ocher			2. Type of Casing Joints: Screw-Couple Glue-
		195	Couple Other Galvanized Galvanized
	+₩ ₩	2.5	Stainless Teflon Other
Bentonite Seal	2.5 Ft. 🕷		4. Diameter of Casing and Well Screen:
Pellets Slurry			Casing Inches, Screen Inches.
Olding	1	<u> </u>	5. Slot Size of Screen: 0/0
Filter Pack			6. Type of Screen Perforation: Factory Slotted
Above Screen .	206 Ft.		Hacksaw Drilled Other
		1.6	7. Installed Protector Pipe w/Lock: Yes No
·		1 <del>- 4 </del>	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing 🗌 Pumping 📝
   FILTER PACK MATERIAL			Air Surging (Air or Nitrogen)  Other
Silica Sand			2. Time Spent on Well Development ?
	30 FL = = = = = = = = = = = = = = = = = =		/Minutes/Hours
Washed Sand [	_20 비 닭 :		3. Approximate Water Volume Removed ?~100 Gallons
Pea Gravel 🗌			4. Water Clarity Before Development? Clear  Turbid  Opaque  O
Other:	-   } 目::		5. Water Clarity After Development ? Clear [1]
Sand Size 8-12		}	Turbid Opaque
	↓	31.6	6. Did Water have Odor? Yes No 🗹
			If Yes, Describe
Dense Phase Sampling Cu	PO. 4 Ft. ::		7. Did Water have any Color? Yes \( \text{No } \( \text{D} \) \)  If Yes, Describe
Bottom Plug Yes No		38 38	
Overdrilled Material Backfill	Ft. I		WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Grout Sand		1	During Drilling 10 Ft. Date 5-27
Caved Material [	1	38_	Before DevelopmentFt. Date
Other:	-	Tana	After Development 10.00 Ft. Date 6/15/98
Driller/Firm WEBE	R	Drill Rig Type <u></u>	Date Installed <u>5/27/98</u>
Drill Crew (1) (385)	2150N	Well No.	Kerr-McGee (RAWFORD)

SOIL BORING LOG KM-5655-B

ŀ	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDI				LOCATION HEND	ca 50.		~~~	BORING PC-64			
DEPT		1/2/10			BLOWS		1		OIL SAMP				
IN FEET	LITHOLOGIC DESCRIPTIO	N	ဗ	UNIFIED SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIO	NS	
	ASPHOLT GROVEL		7:37										
5-	- GRAVERY SOND BRING VORS WELL GRAD DRY SILLY	ωN €N	0.0	SM/ Gm _D_									
15-	GRAVEIS & SAND AA Brong S 11 CLAYEY	<b>1</b> ,	いっていていている	Sm/ GM							T/WUPDY (PE		
20-	CLAY Sect BUFF	ta	X IX	CL				X	20-21	100%			
	Uta Ban stiff										TO 20'		
												_	
H	✓ Water Table (24 Hour)			1	   G	RAPHIC	LOG LE	GE		TE DE LLED	PAGE PAGE		
	Water Table (24 Hour)  Water Table (Time of Boring PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT- BARREL  AUGER	pm) er	OCK ORE			CLAY SILT SAND		DEB FILL HIGHL ORGA SAN CLA	RIS DF	RILLING METHON  HISA  RILLED BY  WE (1)	HOD		
EXPL	THIN- WALLED TUBE  CONTINUOUS SAMPLER		ECOVEI	RY		GRAVEL SILTY CLAY		SAN		J. G	ZAWFORD DE ELEVATION (FT. AMSL)		
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample ii	n Feet			CLAYEY SILT			LC	OCATION OR	GRID COORDINATES		

FLUSIA				DRATION
FLUSIA MOUNT			DEPAR	
74.4	MONITORING	WELL I	NSTALL	ATION DIAGRAM
Protective Pipe		C	asing Cap Ve	ent ? Yes No C
Yes 🗋 🗖 🗆		L	ock ? Yes [	] No []
Steel XPVC	4-1-0-	W	eep Hole?	Yes No
Surveying Ping?	Ft.	0	oncrete Pad	Ft. xFt. xInches
Yes No No		_		
***************************************	DV. S	DEF		DRILLING INFORMATION:
Concrete		BELOW	FROM TOP OF	I. Borehole Diameter= 8 Inches.
- Concrete	Ft.	GRADE	CASING	2. Were Drilling Additives Used? Yes No V
				Revert   Bentonite   Water   Solid Auger   Hollow Stem Auger
				3. Was Outer Steel Casing Used? Yes No 🗹
Cement/Bentonite Grout Mix				Depth= to Feet.
Yes No				
5.5 Gallons Water to				4. Borehole Diameter for Outer CasingInches.
94Lb. Bag Cement &	Ft.			WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder				I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Other:				Stainless Other
				2. Type of Casing Joints: Screw-Couple  Glue-
		1.5		3. Type of Well Screen: PVC 💟 Galvanized 🗌
		1.2		Stainless Teflon Other
Bentonite Seal	⊢ Ft. ₩	•		4. Diameter of Casing and Well Screen: 2
Pellets V Slurry	——' " <b>※</b> ※			Casing 2 Inches, Screen 2 Inches.
Clary	₩	3_		5. Slot Size of Screen: 102()
Filter Pack				6. Type of Screen Perforation: Factory Slotted
Above Screen _	Ft.			Hacksaw Drilled Other
		11		7. Installed Protector Pipe w/Lock: Yes No
		4		WELL DEVELOPMENT INFORMATION:
				I. How was Well Developed? Bailing Pumping
				Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL				2 Time Spent on Wall Davidson at 2
Silica Sand 🔲				2. Time Spent on Well Development?
Washed Sand [V	Ft. Ft.			/Minutes/Hours
	7 1 目:			3. Approximate Water Volume Removed ? 65 Gallons
Pea Gravel 🗌				4. Water Clarity Before Development? Clear  Turbid  Opaque
Other:				5. Water Clarity After Development? Clear
Sand Size 8-12		}		Turbid Opaque
Sand Size		a		6. Did Water have Odor? Yes No
	1-1-1	<del>-17</del>		If Yes, Describe
Dense Phase Sampling Cup	p & 5+	}		7. Did Water have any Color? Yes 🗌 No 🗗
Bottom Plug		,,,,	/	If Yes , Describe
Yes No		19.5	-	WATER LEVEL INFORMATION:
Overdrilled Material		,		Water Level Summary (From Top of Casing)
Backfill	O.S Ft.			During Drilling Ft. Date 5/28
Grout Sand Caved Material	<b>†</b> {	120		Before DevelopmentFt. Date
Other:			-	After Development 5,9 Ft. Date 6/15/98
				/ / /
Driller/Firm WEBC		Drill Rig Ty	pe MOSI	(C B-6/ Date Installed 5/28/98
Drill Crew LEE Ro	BENTSON	Well No.	+C-1	64 Kerr-McGee T RUNFORD

## SOIL BORING LOG KM-5655-B

Chestrut

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIAR		-		LOCATION HEW	)CTS	ou l	WI.	BORING NUMBE	FR PC-65
DEPTH				UNIFIED SOIL					DIL SAMI	PLE	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTIO	N :	GRAPHIC 10G	FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
S	ABHAUT of REDDISH B DRW V (ex GR. SM G WELL GRADED SU CLAYER PART ORZY  CLAYEY SLUT RO BY STIFF DRY LAMINAT	RN to		SM/ GM	6"				ZU-Z]		TO 22    TO 22    Druc 2' Extra  FEET DUE TO  FLOWING SANDS
											-
<b>\</b>						RAPHIC I				5/28/	PAGE 1 of 1
PI NO Z TY	D Photoionization Detection (p) D. Identifies Sample by Numbe	pm)				CLAY SILT			Y NIC (DEAT)	PRILLING METH	IOD
EXPLANATION X	SPLIT-	RO	CK			SAND			IDY Y	WEB	ee
KPLAN	BARREL	Co	RE			GRAVEL		CLA SAN	AEA L	OGGED BY	PAWERZO
Û	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO REC	) COVER	RY		SILTY CLAY			E	XISTING GRAD	E ELEVATION (FT. AMSL)
	EPTH Depth Top and Bottom of So EEC. Actual Length of Recovered	ample Sample in	Feet			CLAYEY SILT				OCATION OR	GRID COORDINATES

		<del></del>		
FWS4 Mour	√ KEI	RR-McGEE DROLOGY	CORPC DEPAR	DRATION RTMENT
COMPLETION	MONITORIN	IG WELL I	NSTALL	ATION DIAGRAM
Protective Pipe		)C	asing Cap Ve	ent ? Yes No C
Yes No			ock ? Yes [	] No []
Steel 🗌 🕏 VC 🗌			Veep Hole?	Yes No
Surveying Pin ?	Ft.			·
Yes No No		<b>K</b>	oncrete Fau	Ft. xFt. xInches
	U.V.	DEI	PTH	DRILLING INFORMATION:
Concrete	Ft. (*   *   *   *   *   *   *   *   *   *	BELOW GRADE	FROM TOP OF CASING	2. Were Drilling Additives Used ? Yes Mo
				Revert Dentonite Water Solid Auger Hollow Stem Auger
	1 1			3. Was Outer Steel Casing Used? Yes ☐ No ☐
Cement/Bentonite Grout Mix				Depth=toFeet.
Yes No No				4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to	Ft.	1		WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & _ 3-5 Lb. Bentonite		1		I.Type of Casing: PVC Galvanized Teflon
Powder		{		Stainless Other
Other:				2. Type of Casing Joints: Screw-Couple Glue-
				Couple Other
	1	<u>_}}                                   </u>		3. Type of Well Screen: PVC 🖯 Galvanized 🗌
Bentonite Seal	<b>↑</b> 👹			Stainless Teflon Other
,	<u> 1.5 </u> Ft. ₩			4. Diameter of Casing and Well Screen:
Pellets 🖳 Slurry 🗌	<b>→</b>	₩ 3		Casing Inches, Screen Inches.
Filter Pack				5. Slot Size of Screen: 020
Above Screen _	/ Ft.			6. Type of Screen Perforation: Factory Slotted
				Hacksaw Drilled Other
	1	4.1		7. Installed Protector Pipe w/Lock: Yes No
				WELL DEVELOPMENT INFORMATION:
	//:E	[: ·:}		1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		<i>∴</i> }		Air Surging (Air or Nitrogen) Other
Silica Sand 🔽		··.		2. Time Spent on Well Development ?
	\\  \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			/ Minutes/Hours
Washed Sand 🗌 🔝	14,6 Ft. ===================================	· : (		3. Approximate Water Volume Removed? 65 Gallons
Pea Gravel 🗌				4. Water Clarity Before Development? Clear  Turbid  Opaque
Other:				5. Water Clarity After Development? Clear
04 0:		<i>i.</i> .}		Turbid Opaque
Sand Size	\	18.7		6. Did Water have Odor? Yes No 🛂
•		[:.] -10 * 1	-	If Yes, Describe
Dense Phase Sampling Cup	O ( Ft.			7. Did Water have any Color? Yes 🗌 No 🕡
Bottom Plug - Yes ☑ No ☐	<u> </u>		n a.c	If Yes , Describe
Overdrilled Material		<u> </u>	<u>18.35</u>	WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill	Ft.	1		During Drilling $12$ Ft. Date $5/28$
Grout Sand C		1 22		Before DevelopmentFt. Date
		/ Ad	_	After DevelopmentFt. Date 6//5/98
Other:				
Driller/Firm WEBER	2	Drill Rig Ty	1pe <u>B-</u> 6	
Drill Crew LEE Z	BERTSON	Well No.	PC-4	Kerr-McGee Hydrologist T, GRAWFORD

	DIL BORING LOG KM-5655-B  KERR-McGEE CORPORATION KM SUBSIDIARY LOCATION BORING SOLUTION													
	drology Dept S&EA Division	KMC-	L	<u>_</u>		HENDERSON NV						BORING PC - 66		
DEPTH			۳.۷	UNIFIED		PID		SC	OIL SAN	APLE		REMARKS OR		
IN FEET	LITHOLOGIC DESCRIPTIO	N S	GRAPHIC LOG	SOIL	PER 6"	(ppm)	NO.	ТҮРЕ	DEPT	н ғ	REC.	FIELD OBSERVATIONS		
	ASPHALT & ROAD GRAVEN		151°	CLASS.				-	***************************************					
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	_	1.	. 6	Sm/		<u></u>		I						
– سر	GRAVELLY SAND BRN-	150) \	٠	Gm		_					į			
>	GRAVELLY SAND BRN- BRN V CAS SILTY WELL GLADED DRY	-6	1	9										
_	WELL GLADED DEY											_		
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	GROVELLY SALLS ALOR 130	ing												
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24.5	Sut/CUY LT BRN -	tan	XX	CL	T	<u> </u>								
_	SOFT-FIRM NON to V	1541	777											
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<u> </u>	, ,					RAPHIC					28/	in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of		
	ID Photoionization Detection (p	pm)			I	CLAY					IG METH	IOD		
1 1	O. Identifies Sample by Number PE Sample Collection Method	er				SILT		HIGHL	LY ANIC (PEAT)	DRILLE	10 H			
ATIC	SPLIT-	RO	CK		<b>***</b>	SAND		SAN	NDY .			SEL		
EXPLANATION X	BARREL	co				GRAVEL			YEY ND	LOGGE	D BY	nu 1640		
XI I	THIN- CONTINUOUS	NO	)					JAC	שא	EXISTIN	NG GRAD	DE ELEVATION (FT. AMSL)		
	TUBE CONTINUOUS SAMPLER	REC	COVE	RY		SILTY								
	EPTH Depth Top and Bottom of Sc REC. Actual Length of Recovered	ample Sample in I	Feet			CLAYEY SILT				LOCATI	ION OR	GRID COORDINATES		
Ш	Actour teligili of Recovered	Jumple III I			<u></u>									

FLUSH			E CORPO Depar	DRATION
mount				ATION DIAGRAM
Protective Pipe		C	asing Can Vo	nt? Yes 🗌 No 🗍
Yes No			ock? Yes	
X				/es
Steel PVC Surveying Pin ?	Ft.			
Yes No D		,C	Concrete Pad	Ft. xFt. xInches
	UNG ST	P V DEF	PTH	DRILLING INFORMATION:
		}	FROM	1. Borehole Diameter= Inches.
Concrete	Ft.	BELOW GRADE	TOP OF CASING	2. Were Drilling Additives Used? Yes No No
				Revert Bentonite Water
				Solid Auger 🔲 Hollow Stem Auger 🖳
	1 } ]			3. Was Outer Steel Casing Used? Yes No No
Cement/Bentonite Grout Mix				Depth=toFeet.
Yes No		1 =		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	Ft.			WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite				I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Powder Other:		(		Stainless Other
Other.				2. Type of Casing Joints: Screw-Couple 🖵 Glue-
				Couple Other
	+-	2		3. Type of Well Screen: PVC Galvanized
Bentonite Seal	J 👹 🔯	{		Stainless Teflon Other
_	Ft <b>.</b>			4. Diameter of Casing and Well Screen:
Pellets 🛛 Slurry 🗌	→ 🔘 🖔	5		Casing Z Inches, Screen Z Inches.
Filter Pack		,		5. Slot Size of Screen: . 670
Above Screen _	1.9 Ft.	1		6. Type of Screen Perforation: Factory Slotted
				Hacksaw Drilled Other
·		6.9		7. Installed Protector Pipe w/Lock: Yes No
		}		WELL DEVELOPMENT INFORMATION:
		}		I. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		{		Air Surging (Air or Nitrogen) Other
Silica Sand		}		2. Time Spent on Well Development?
		}		/
Washed Sand 🗍	<del>선인 </del> 기·덤·			3. Approximate Water Volume Removed ? 75 Gallons
Pea Gravel 🗌		1		4. Water Clarity Before Development? Clear
Other:		Ì		Turbid Opaque O
		}		5. Water Clarity After Development? Clear
Sand Size 8-12	-	.]		Turbid Opaque C  6. Did Water have Odcr? Yes No 7
	<u> </u>	26.93		If Yes, Describe
Dense Phase Sampling Cu		}		7. Did Water have any Color? Yes No 2
Bottom Plug	10:4 Ft.	1		If Yes , Describe
Yes No 🗆		27.33	2692	
Overdrilled Material				WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing),
Backfill	Ft.	1		During Drilling $10$ Ft. Date $5/28/98$
Grout Sand		27		Before DevelopmentFt. Date
Caved Material		1 01	-	After Development 8.25 Ft. Date 6/15/98
Other:				rt. Date 0//3/ /d
Driller/Firm WEBER	<u></u>	Drill Rig Ty	pe WOB	UEB-6 Date Installed 5/28/98
Drill Crew LEE TOBE	ituson	Well No.	PC-61	Kerr-McGee Hydrologist J. CRAWETTED

	OKING LOG KW-5055-B											
	ERR-McGEE CORPORATION ydrology Dept S&EA Division	KM SUBSIDIAR	しし			LOCATION HEND	ETSO	N.	VU,		BORING NUMBE	PC-47
DEPTH			<b>≟</b>	UNIFIED	BLOWS				IL SAM	PLF	T	
IN FEET	LITHOLOGIC DESCRIPTION		GRAPHI 10G	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH		REC.	REMARKS OR FIELD OBSERVATIONS
1	ASPHALT & ZOND GRAV	Kes i	१इट्रा									
١ ' .			6									
	Sich Sons ID RIPAL	coc i	4.	Sm/								_
-	Sicty SAND 770 BRN Glaver Common wen	CE ASSOCIA		/								_
15-	Deg	- GIAMEO	0 1	GM								
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' .	Suty JANN AAB INC	المحمد	$\mathbb{I}_{2}$									
	iscung wet											_
	1	1	1.1									HARD BEILLING _
	GYBUMKTUS 14-15						1	V	14-15	-	100'	at 14"
15-		1	1.			<del></del>			······································		-	<u> </u>
		:	1:1					1				
		;	1.4:									_
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20-	SILLY SAND BEN- (	t BRN	10.			<u> </u>						
	CRS-V CRS GR FEW G	POVECS :										-
	SOT "SOUPY"					_						-
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50-		-										32-32.6 HARD
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35-			: :1									
36	SILTY CLAY TED BRN TAN SOFT - FIRM	- Ut ]	11	CL	1							· . —
	TAN SOFT - FIRM		M,	CC								-
	_						2	X	38-3	59	(00%	_
40	T			<u> </u>	6	RAPHIC I	06.15	GEN	in I	DATE	DINLLED	/ PAGE
1 1	Water Table (24 Hour)								-		129/	
F	Water Table (Time of Boring Photoionization Detection (p	pm)				CLAY		FILL	``` [c	DRILL	NG METH	OD
	<ul><li>IO. Identifies Sample by Number</li><li>YPE Sample Collection Method</li></ul>	er				SILT		HIGHLY ORGAN	IIC (PEAT)		15A	
19	7					SAND		SANI	1		JEB	EM
EXPLANATION	SPLIT- BARREL AUGER	ROC			1				Ti		ED BY A	
19 -						GRAVEL		SAN	D	_	T. C	24WF0RO
	THIN- WALLED TUBE CONTINUOUS SAMPLER		COVER	RY		SILTY CLAY				XISTI	NG GRAD	E ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S	L_J ample				CLAYEY SILT			-	_OCA	TION OR C	GRID COORDINATES
	REC. Actual Length of Recovered	Sample in I	Feet		ULL	2IL1	. —					

		<u></u>	
TUSH	HYDR	OLOGY DE	· · · · · · · · · · · · · · · · · · ·
MOUNT	MONITORING	WELL INST	ALLATION DIAGRAM
Protective Pipe		Casing C	ap Vent ? Yes 🗌 No 🗍
Yes No		Lock ? Y	′es □ No □
Steel PVC		Weep Ho	le ? Yes 🗌 No 🗌
Surveying Rin ?	Ft.	Concrete	PadFt. xFt. xInches
Yes No 🗆			- DRILLING INFORMATION:
,	V V V V V V	DEPTH	M 1. Borehole Diameter= Inches.
Concrete	Ft. p. 7	BELOW TOP GRADE CASI	OF O War Drilling Additional Hood 2 Year To No ITY
	<b>†</b> [ ] [ ]		3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes Ū∕ No 🗌			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & 3-5 Lb. Bentonite	Ft.\		I.Type of Casing: PVC Galvanized Teflon G
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
		~	Couple Other
			3. Type of Well Screen: PVC 🖵 Galvanized 🗌
Bentonite Seal	1 🔘 🔘		Stainless Teflon Other
,	Ft. ₩ ₩		4. Diameter of Casing and Well Screen:
Pellets V Slurry	4	7	Casing Inches, Screen Inches.  5. Slot Size of Screen: . OZO
Filter Pack			6. Type of Screen Perforation: Factory Slotted
Above Screen	4.0 Ft.		Hacksaw Drilled Other
		11.0	7. Installed Protector Pipe w/Lock: Yes No
		11.39	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL			Dr. Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Co
Silica Sand 🔲			1
Washed Sand [V	24.6Ft. [= ::		
Other:			5. Water Clarity After Development? Clear
Send Size 8-17-			Turbid 🕟
Salid Size	<u> </u>	38.4	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA
Dansa Phase Sampling Cun		\ 	
Bottom Plua	0.4 Ft.		If Yes, Describe
Yes No		36	
Overdrilled Material Backfill	7 Ft.		Water Level Summary (From Top of Casing)
Grout Sand		1 20	
Caved Material		<u> 58</u>	
Other:			After Development _ / 6 C Ft. Date _ 6//5/78
Driller/Firm WEBER	2	Drill Rig Type /	LOBICE B-6 Date Installed 5/29/98
Drill Crew /EG BIR	SECTSON)	Well No.	Kerr-McGee Hydrologist T. CALIFORD
FILTER PACK MATERIAL  Silica Sand  Washed Sand  Pea Gravel  Other:  Sand Size  S-12  Dense Phase Sampling Cup Bottom Plug Yes No  Overdrilled Material Backfill Grout Sand Caved Material Caved Material Other:  Driller/Firm  UEBER	2 Ft.	34 38 Drill Rig Type #	7. Installed Protector Pipe w/Lock: Yes \ No \ \ WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing \ Pumping \ \ Air Surging (Air or Nitrogen) \ Other \ \ 2. Time Spent on Well Development? \ Minutes/Hours  3. Approximate Water Volume Removed? \( \frac{1}{2} \) Gallons  4. Water Clarity Before Development? Clear \ \ Turbid \ Opaque \ Opaque \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

	RR-McGEE CORPORATION Irology Dept S&EA Division	KM SUBSIDI	- [[			HEUDE	EXSOR	4	NU	BORIN NUMB	G ER PC-68
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6'	PID (ppm)	NO.	TYPE S	DEPTH	T	REMARKS OR FIELD OBSERVATIONS
2	BERN MATERIAL		77								_
-	SICTY SAND BRY-DI	L BZH	-01	  Smj/							- - -
	gravec common wen	graden	· (,	Gan							- - -
(6	GROJELS 9-10		000								
15	SILTY SAND MARS ACM	9 wet	1.1.								
-											- - -
				Sm							- - - -
25- - -	Sicty SAND W/ GRA	ÆL.									
30— - - -	Sictul Sann will glow Poor returns		101.1.1								- - - -
35-			0:1								- - - -
40 ▼	Water Table (24 Hour)					RAPHIC I				DATE DRILLED	PAGE / of 2
PIC NC TYP	<ul><li>Photoionization Detection (p)</li><li>Identifies Sample by Number</li></ul>	pm)				CLAY SILT		HIGHL	Y (DEAT)	C/I CORILLING MET	<i>U</i> ,
EXPLANATION	SPLIT- BARREL AUGER		OCK ORE		-	SAND GRAVEL			YEY	WEIZEN OGGED BY J. U	L LAWFORD
DE	THIN- WALLED TUBE  EPTH Depth Top and Bottom of S EC. Actual Length of Recovered	ample R	IO ECOVE	RY	1	SILTY CLAY CLAYEY SILT				EXISTING GRA	DE ELEVATION (FT. AMSL)  GRID COORDINATES

KE	DRING LOG KM-5655-B  RR-McGEE CORPORATION  drology Dept S&EA Division	ARY LLC			LOCATION HEND	ENSO	N	NV	BORING PL-48		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION			UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"		NO.		DEPTH		REMARKS OR FIELD OBSERVATIONS
- - - - - - - -	Cosixes		000	SM GM							- - - -
-   ≤δ-     -	Sicty CLAY ED BEN BA	cmg	100 gg	C(				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			
	LI GREENISH SY SOF SU RUASTIC TO GRAVE	4 · /							· "4		DRIVED to - 55' (6/3/98) FOR WELL COMPLETION
EXPLANATION  I.A. I.A. I.A. I.A. I.A. I.A. I.A. I.A	Water Table (Time of Boring D Photoionization Detection (p O. Identifies Sample by Numbe	pm) Pr  RC  RR  R	ECOVER	RY		SILT SAND GRAVEL		DEBI FILL HIGHLY ORGAN SAN CLA	RIS DI  AIC (PEAT) DI  DY  (YEY  D  E3		HOD

			ORATION
חזטו		/ DEPAF Install	ATION DIAGRAM
Protective Pipe	·C	Casing Cap Ve	ent ? Yes No
Yes No D		ock ? Yes [	<del></del>
Steel PVC			Yes No
Surveying Pin ?Ft.		Concrete Pad	Ft. xFt. xInches
Yes No	P. W.		DRILLING INFORMATION:
	DEF	PTH FROM	0
Concrete Ft.	BELOW GRADE	TOP OF CASING	2. Were Drilling Additives Used? Yes No [T
	GINADL	OASING	Revert Bentonite Water
			Solid Auger 🗌 Hollow Stem Auger 🕡
· · · · · · · · · · · · · · · · · · ·			3. Was Outer Steel Casing Used? Yes No 🕡
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes Mo	The second		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement & Ft.			WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	}		I.Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌
Other:	}		Stainless Other
<u> </u>			Couple Other
	}		3. Type of Well Screen: PVC 🕡 Galvanized 🗌
Bentonite Seal			Stainless Teflon Other
/ / / / / / / / / / / Ft. <b>                                    </b>	\$		4. Diameter of Casing and Well Screen:
Pellets ☑ Slurry ☐	8		Casing Inches, Screen Inches.
Filter Pack			5. Slot Size of Screen: . OZO
Above ScreenFt.	1		6. Type of Screen Perforation: Factory Slotted
		سير. ۵	Hacksaw Drilled Other
	-10_	9.55	7. Installed Protector Pipe w/Lock: Yes \( \text{No } \text{IV} \)  WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping
SH TED DAOK MATERIAL	}		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand			/Minutes/Hours
Washed Sand $\square$ 45 Ft.	:		3. Approximate Water Volume Removed ? 105 Gallons
Pea Gravel 🗌 💮			4. Water Clarity Before Development ? Clear
Other:	·}		Turbid Opaque
	. {		5. Water Clarity After Development? Clear
Sand Size			Turbid Opaque C  6. Did Water have Odor? Yes No C
│───── <b>┴</b> ──ो┈┤╡┄	54.9		If Yes, Describe
Dense Phase Sampling Cup O. 4 Ft.	1		7. Did Water have any Color? Yes No
Bottom Plug	55.3	~1 da	If Yes . Describe
Yes No	724	54.87	WATER LEVEL INFORMATION:
Overdrilled Material Backfill Ft.	1		Water Level Summary (From Top of Casing)
Grout   Sand	1		During Drilling $1$ Ft. Date $\frac{6/3/98}{}$
Caved Material	J	-	Before DevelopmentFt. Date
Other:			After Development 9,10 Ft. Date 6/15/98
Driller/Firm WEみどん	Drill Rig Ty	pe Mois	ILE B-61 Date Installed 4/3/9
Drill Crew LEE ROBERTSON		PC - 1	

Н	<b>KE</b> lydro	RR-McGEE CORPORATION ogy Dept. Engineering Services	ical			LOGATION	g	Õ	در <i>لد</i> ر	BORIN NUMB	
	PTH N	LITHOLOGIC DESCRIPTION	E S	UNIFIED SOIL	BLOWS	PID			OIL SAM		REMARKS OR
	ĒΤ	LITHOLOGIC DESCRIPTION	GRAPHIC 10G	FIELD CLASS.	PER FOOT	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
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	-	2 xy-muddy creek						X	30-3	1 1'	1130
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	•	Water Table (24 Hour)				RAPHIC L				ATE DRILLED	- 48 PAGE / of /
	PIC							EILL	RIS	RILLING METH	40D 7 017
NO	NO TYP					SILT	$\simeq$		NIC (PEAT)	HOLLO RILLED BY	No You Houser
EXPLANATION			OCK ORE		1	SAND			170	OGGED BY	i apre Dailling
XPLA		THIN.				GRAVEL		CLA	YEY .	540	+ lower
"		WALLED CONTINUOUS     N	O ECOVER	Y					E	XISTING GRAD	DE ELEVATION (FT. AMSL)
	DEI RE	PTH Depth Top and Bottom of Sample C. Actual Length of Recovered Sample in	Feet			CLAYEY SILT				OCATION OR	GRID COORDINATES
	l				1						

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe ----\_\_\_\_Casing Cap Vent? Yes No Yes **∑** .---Lock? Yes 🔲 No 🔲 No 🗍 Weep Hole? Yes 🗌 No 🗌 Steel X PVC Ft. Surveying Pin ? --Concrete Pad \_\_\_\_\_Ft. x \_\_\_\_Ft. x \_\_\_\_Inches Yes 🗌 No 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= b. 75 Inches. FROM BELOW TOP OF Ft. 2. Were Drilling Additives Used? Yes No 📈 Concrete GRADE CASING Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 📈 3. Was Outer Steel Casing Used? Yes No Cement/Bentonite Grout Mix Depth= to Feet. Yes 🔯 No 🗌 4. Borehole Diameter for Outer Casing \_\_\_\_\_Inches. 5.5 Gallons Water to 94Lb. Bag Cement & 3.5 Ft. WELL CONSTRUCTION INFORMATION: I.Type of Casing: PVC \\ \ \ Galvanized \ \ Teflon \ \ 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple Couple Other 3.5 3. Type of Well Screen: PVC X Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: 0.020 7.5 Ft. Casing 2 Inches, Screen 7 Inches. Pellets X Slurry 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Above Screen Hacksaw Drilled Other 13.4 7. Installed Protector Pipe w/Lock: Yes X No WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Dumping Air Surging (Air or Nitrogen) Other FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand \_/\_\_\_ Minutes/Hours 15 Ft. Washed Sand 3. Approximate Water Volume Removed ? \_\_\_\_ Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: \_\_\_\_ 5. Water Clarity After Development? Clear Opaque [ Turbid [ 6. Did Water have Odor? Yes No No 28.4 If Yes, Describe 7. Did Water have any Color? Yes . No . Dense Phase Sampling Cup ( Ft. Bottom\_Plug If Yes, Describe 30.4 Yes 🔀 No 🗌 WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) Backfill During Drilling \_\_\_\_\_ Ft. Date \_ Grout Sand Before Development\_\_\_ Ft. Date Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: Driller/Firm Compliance Drilling Drill Rig Type mobile B-59 Date Installed 11-30-980 Drill Crew Lee Albertson Well No. PC-71 Kerr-McGee Hydrologist Step Lower

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	РТН			UNIFIED SOIL	BLOWS	PID			SAMPLE		DEALABLE OF
	N EET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	FIELD CLASS.	PER FOOT	(ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
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	_	Reddish-boom 1117, Firm, 610cty-mude	~			_			5-36	1'	0120
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4	- ه	TD 38 F+							- <u>J</u> U	4	
	Y	Water Table (24 Hour)			GI	RAPHIC L	OG LEC	GEND		DRILLED	PAGE
			ı)			CLAY		DEBRIS FILL		L. (- ING METH	- 1
z	NC TYP	). Identifies Sample by Numbe	r		│ Ⅲ s	ILT		IIGHLY DRGANIC (F	PEAT)	01/01	a Sten Auger
ATIO	<b>N</b> 7	· 1	<b>1</b> 10		│ s	AND		SANDY	DRILL	ED BY	liance Drilling
EXPLANATION	X	SPLIT- BARREL AUGER	ROCK CORE			GRAVEL		CLAYEY SAND	rogg	GED BY	1
EX		THIN- WALLED CONTINUOUS	NO					DANU		ING GRAD	E ELEVATION (FT. AMSL.)
	DE	TUBE SAMPLER	RECOVER	ī	1	CLAY CLAYEY SILT			-	TION CO.	CRID COORDINATES
	RE	PTH Depth Top and Bottom of Sc EC. Actual Length of Recovered	Sample in Feet	· · · · · · · · · · · · · · · · · · ·	ו מדאו s	ALT				OR C	GRID COORDINATES

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe ----\_\_\_\_Casing Cap Vent? Yes No Yes X No 🗍 ---Lock? Yes 🔲 No 🔲 Steel X PVC Weep Hole? Yes 🗌 No 🗌 Surveying Pin ? -Concrete Pad \_\_\_\_\_Ft. x \_\_\_\_Ft. x \_\_\_\_Ft. x Yes $\square$ No 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter = 6.75 Inches. FROM BELOW TOP OF Concrete 2. Were Drilling Additives Used? Yes No GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes 🗌 Cement/Bentonite Grout Mix Depth= to Feet. Yes 💢 No 4. Borehole Diameter for Outer Casing \_\_\_\_\_Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 3-5 Lb. Bentonite I.Type of Casing: PVC 🏋 Galvanized 🗌 Teflon 🗌 Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple X Glue-Couple Other \_\_\_ 3. Type of Well Screen: PVC 💢 Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Casing Inches, Screen Inches. Pellets X Slurry 5. Slot Size of Screen: 0 010 Filter Pack 6. Type of Screen Perforation: Factory Slotted X Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes X No 15 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Dumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand D \_/\_\_\_\_Minutes/Hours 20 Ft. Washed Sand 3. Approximate Water Volume Removed? Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: 5. Water Clarity After Development? Clear Turbid [ Opaque [ Sand Size \_\_\_ 6. Did Water have Oder? Yes \ No \ 35 If Yes, Describe 7. Did Water have any Color? Yes No Dense Phase Sampling Cup . Bottom Plug If Yes, Describe Yes No 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material Backfill During Drilling \_\_\_\_\_ Ft. Date \_\_\_ Grout Sand Before Development\_\_\_\_\_ Ft. Date Caved Material After Development \_\_\_\_\_ Ft. Date\_\_ Other: \_\_\_ Driller/Firm Compliance Drilling Drill Rig Type Mobile B-59 Date Installed 12-1-98 Drill Crew Lee Labertson Well No. PC-72 Kerr-McGee Hydrologist Close 1 - 1.

Н	KERR-McGEE CORPORATION ydrology Dept. Engineering Services	Chspilo KWENBZIDIYÉA			DE N	dero	ν, ΓΥ <i>Υ</i>	BORIN	G PC-73
DE	PTH	OH O	UNIFIED	BLOWS	PID	T	OIL SAMPL	.E	REMARKS OR
FE	N LITHOLOGIC DESCRIPTI ET	GRAPHIC LOG	FIELD CLASS.		(ppm)	NO. TYPE	DEPTH	REC.	FIELD OBSERVATIONS
5 10 15 2 30 33 4	Shall to andi Shall to andi Thin layers  Composity sam with shall g	Sa Nd	GM CASS.						
	▼ Water Table (24 Hour)					OG LEGE	1.	TE DRILLED	98 PAGE 1 of 2
EXPLANATION	Water Table (Time of Borin PID Photoionization Detection (p. NO. Identifies Sample by Numbrane Sample Collection Method  SPLIT. BARREL AUGER  THIN. WALLED TUBE  CONTINUOUS SAMPLER	ROCK CORE	RY		LT AND RAVEL	FILL HIGH ORG SAN CLA SAN	LY DRI	LLING METH	HOD
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	iample		SI SI			LOG	CATION OR	GRID COORDINATES

Н	<b>KE</b> lydro	RR-McGEE CORPORATION logy Dept. Engineering Services	KM SUBSIDIARY			LOCATION	Prso	rex. D	 νν	BORIN NUMB	G ER PC-73
DE	PTH N	LITHOLOGIC DESCRIPTION	GRAPHIC ST	UNIFIED SOIL FIELD	BLOWS			SOIL	SAMPL	E	REMARKS OR
FE	ĒΤ		GRA A	FIELD CLASS.	FOOT	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
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	PIC	Photoionization Detection (pr	óm)					DEBRIS FILL	DRIL	LING METH	000
NO	NC TYP		r			SILT		HIGHLY DRGANIC (PI	CATI	TED BY	Otem Huger
EXPLANATION	$\bigvee$	SPLIT- AUGER	ROCK			SAND		SANDY CLAY			iance Drilling
PLA		DANKEL	CORE			GRAVEL		CLAYEY SAND	LOG	SED BY	e lower
Ě		THIN- WALLED CONTINUOUS TUBE SAMPLER	NO RECOV	ERY					L	TING GRAD	DE ELEVATION (FT. AMSL)
	DE	PTH Depth Top and Bottom of Sc	ımple		1	CLAYEY SILT			LOC	ATION OR (	GRID COORDINATES
	RE	C. Actual Length of Recovered	Sample in Feet		L ULIN	J1L1					wip.

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe -------- Casing Cap Vent? Yes No Yes X No 🗌 ----Lock? Yes \ No \ Weep Hole? Yes 🔲 No 🗌 Steel X PVC Surveying Pin ? --Concrete Pad \_\_\_\_\_Ft. x \_\_\_\_Ft. x \_\_\_\_\_Ft. Yes $\square$ No 🗌 DRILLING INFORMATION: 1. Borehole Diameter= 6.25 Inches. FROM **RELOW** TOP OF Concrete 2. Were Drilling Additives Used? Yes No X GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | X 3. Was Outer Steel Casing Used? Yes No. Cement/Bentonite Grout Mix Depth= to Feet. Yes 🔯 No 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to 17-5 Ft. WELL CONSTRUCTION INFORMATION: 94Lb. Bag Cement & 3-5 Lb. Bentonite 1. Type of Casing: PVC X Galvanized Teflon Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple \( \nabla \) Couple Other 12.5 3. Type of Well Screen: PVC 💆 Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Casing $\overline{\mathcal{L}}$ Inches, Screen $\overline{\mathcal{L}}$ Inches. Pellets X Slurry 175 5. Slot Size of Screen: p.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted 2.5 Ft. Above Screen Hacksaw Drilled Dther 20 7. Installed Protector Pipe w/Lock: Yes X No WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Dumping X Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand \_/\_\_\_ Minutes/Hours 25 Ft. Washed Sand 3. Approximate Water Volume Removed ? \_\_\_\_ Gallons Pea Gravel [ 4. Water Clarity Before Development? Clear Turbid Opaque Other: 5. Water Clarity After Development? Clear Opaque [ Turbid [ Sand Size \_\_ 45 6. Did Water have Oder? Yes No No If Yes, Describe Dense Phase Sampling Cup 7. 5 Ft. 7. Did Water have any Color? Yes No No If Yes, Describe Bottom Plug 475 Yes No 🗌 WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) Backfill During Drilling \_\_\_\_\_ Ft. Date \_\_ Grout Sand Before Development\_\_\_\_\_ Ft. Date 48 Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: Driller/Firm Compliance Dg. 11. No Drill Rig Type Mob. to Bos Date Installed 12-1-98 Drill Crew De Rentson Well No. PC-73 Kerr-McGee Hydrologist Stelle Lower Kerr-McGee Hydrologist

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDI				Hend	erso	n	NV	BORING PC 74		
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	RAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	SC IYPE	DIL SAM	T	REMARKS OR FIELD OBSERVATIONS	
5—	5d, yell orange.  30% gravel + boulder  2' diam. volcani  60% vc-vf SA Sd  10% Silt  8-15 SILY SAND w  gravel. Inc in silt  25%, gry brn. So  vf-vc, SA-A. Gravel  w/minor silt. gry b  volc grav. to 2" o  sd vc-f SA-A ma  10-15% silt  21-24 cly SAND  grn, Sd f-vc w  com (40%) clay  24-51 Pen Gravel  vc-f 3d matrix.  gry. St. Slty  25% sd 70% pengy  27-285w/ com cobble  boulders  37-48 boulder 3,  (thin) scattered  throughout	rs to cs  /minor  tis and  /el  rn  /rriv.  gry  yrn  es/	0.0000000000000000000000000000000000000	5 C				XI.			damp@7'  212.45'  4-29-00  V WTR@16'  (Perched)  4-26-00  only damp  @ 21'  V WTR@24'  4-26-00	
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_	Z Water Table (Time of Boring		1.0.	1		GRAPHIC CLAY	rog ri		IND	DATE DRILLED  4-26  DRILLING MET	.00 1 of Z	
EXPLANATION	Depth Top and Bottom of Secondary	ample	OCK ORE NO RECOVE	RY				SAN	ADA	LOGGED BY  E  EXISTING GRA	A  pliance  KRISH  ADE ELEVATION (FT. AMSL)  R GRID COORDINATES	

ŧ	ERR-McGEE CORPORATION ydrology Dept S&EA Division	KM SUBSIDI		LC		Hend	1ev1	103	~ NV	BORIN NUMB	G PC74
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER 6"	PID (ppm)	NO.	ry PE	DIL SAMI	PLE REC.	REMARKS OR FIELD OBSERVATIONS
			000000000000000000000000000000000000000	GW.							SCREENED - 40'-50' - WTR SMPL - 4-28-00 - PH 7.3 - TDS 7100 -
51	51-56 SAND, m SA-SR, grn gry, ha Sity (10%). w/ 10%	rd. 51.		SW							
	56-70 sity sdy CL grn gry & red brn, n Calcareous, sticky, e slow. w/ 5-15% vf- sand in matrix. Contains 10% c-vc sized caliche nodula dissem. throughout	ntaled. Irills ma -gran		CL-							Muddy Creek _
-	- T> 70'									,	7
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Boring Photoionization Detection (photoionization Detection (photoionization Detection (photoionization Detection (photoionization Detection (photoionization Detection (photoionization (photoionization) photoionization (photoionization) photoionizationization (photoionizationization) photoionizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationizationi	pm) er  R  R  R  R  R  R  R  R  R  R  R  R  R	OCK ORE IO ECOVE	RY		GRAPHIC I  CLAY  SILT  SAND  GRAVEL  SILTY  CLAYEY  SILT		DEB FILL HIGHI ORGA SAN CLA	RIS C LY NNIC (PEAT) C NDY LYEY ND C	OGGED BY	00 Z of Z

		-McGEE CORP	RTMENT
	•••		LATION DIAGRAM FLUSH
Protective Pipe	_	Casing Cap V	'ent? Yes ♥ No □ Mount
Yes 🛛 No 🗌		Lock ? Yes [	
Steel PVC	1-0	Weep Hole?	Yes No No
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. xFt. x
Yes No No	1	P.: V.	DRILLING INFORMATION:
	D. Vo. D	DEPTH FROM	I. Borehole Diameter= 10 1/z Inches.
Concrete	Ft. 61 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No Revert Bentonite Water Solid Auger Hollow Stem Auger 3. Was Outer Steel Casing Used? Yes No
Coment (Bootspite Court Min			Depth=toFeet.
Cement/Bentonite Grout Mix			
Yes ☑ No ☐ 5.5 Gallons Water to			4. Borehole Diameter for Outer CasingInches.
94Lb. Bag Cement & 2 3-5 Lb. Bentonite	29.5 Ft.		WELL CONSTRUCTION INFORMATION:  1.Type of Casing: PVC Galvanized Teflon Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
			Couple
		29.5	3. Type of Well Screen: PVC 📈 Galvanized 🗌
Pantanita Caal	<b>→</b> 👹 🕷		Stainless Teflon Other
Bentonite Seal	Ft. 🐰 🐰		4. Diameter of Casing and Well Screen:
Pellets Slurry -	<b>→</b> 👹 🗟	34.5	Casing 2" Inches, Screen 2" Inches.
Filter Pack			5. Slot Size of Screen: 0.02
Above Screen _			6. Type of Screen Perforation: Factory Slotted
		39.5	Hacksaw Drilled Other
		{	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping Ar Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL	1 1 1		2. Time Spent on Well Development ?
Silica Sand 🗌			// Minutes Hours
Washed Sand 📈 _	10 Ft []	:{	3. Approximate Water Volume Removed ? Gallons
Pea Gravel			4. Water Clarity Before Development? Clear  Turbid  Opaque
Other:			5. Water Clarity After Development ? Clear 🗹
Sand Size #3		1	Turbid Opaque
Salid Olze 71	↓   目	149.5	6. Did Water have Oder? Yes No 🛣
			— If Yes, Describe
Dense Phase Sampling Cup	0.5 Ft.	:{	If Yes, Describe
Bottom Plug Yes X No		50'	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	Ft.]		Water Level Summary (From Top of Casing)  During Drilling 24 Ft. Date 4-26-00
Grout Sand		70'	Before Development 12.45 Ft. Date 4-29-00
Caved Material [		) 10	After Development 13.41' Ft. Date 5-11-00
Other:			The Date
Driller/Firm Compl	iance	Drill Rig Type Mol	V N-0
Drill Crew Wells,		Well No. PC 7	14 Kerr-McGee Hydrologist Ed Krish

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY KM C LL				LC		Hend	erso	n, N'	BORIN NUMB	G PC 7	16
DEP1	H LITHOLOGIC DESCRIPTIO			UNIFIED SOIL FIELD	PER	PID		SOIL SAM	PLE		RKS OR ERVATIONS
10.	PC 76 located  10' SW of F  (20' SW of PC  See log of PC	C75	GRA	FIELD CLASS.	6"	(ppm)	NO.	DEPTH	, REC.	S CREE SET 15'- V	ZO' - 4-29-00 - @16.28' - mpL
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Borin PID Photoionization Detection (property)  NO. Identifies Sample by Numb TYPE Sample Collection Method  SPLIT-BARREL AUGER  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of Spec. Actual Length of Recovered	Sample	OCK CORE NO RECOVE			CLAY  SILT  SAND  GRAVEL  SILTY  CLAYEY  SILT		DEBRIS ILL	COM LOGGED BY EXISTING GR	- 00	of

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT									
	MONITORING		LATION DIAGRAM - LUSH						
Protective Pipe			ent? Yes 🛛 No 🗌 MOUNT						
Yes 🛛 🆊 No 🗌	1 TELL	Lock ? Yes [							
Steel 🛛 PVC 🗌 —		Weep Hole ?	Yes No						
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. xInches						
Yes No	0.000	PV	DRILLING INFORMATION:						
		DEPTH FROM	I. Borehole Diameter= 10 1/2 Inches.						
Concrete	Ft. 9	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used ? Yes No X Revert Bentonite Water Solid Auger Hollow Stem Auger						
	<b>1</b>		3. Was Outer Steel Casing Used? Yes 🗌 🛮 No📈						
Cement/Bentonite Grout Mix			Depth=toFeet.						
Yes T⊠ No □		}	4. Borehole Diameter for Outer Casing 8 Inches.						
5.5 Gallons Water to	_ს _ Ft.	}	WELL CONSTRUCTION INFORMATION						
94Lb. Bag Cement & 3-5 Lb. Bentonite Powder		}	I.Type of Casing: PVC X Galvanized Teflon Stainless Other						
Other:			2. Type of Casing Joints: Screw-Couple Glue-						
	1 1	7.0	3. Type of Well Screen: PVC 📈 Galvanized 🗌						
	<b>▼</b>		Stainless Teflon Other						
Bentonite Seal	1.'o Ft. 🔘 🐰	3	4. Diameter of Casing and Well Screen:						
Pellets Slurry	$ op \ igotimes \ igotimes$	)).o	Casing Z II Inches, Screen Z Inches.						
_	╁── ፟፟፟፠   ፟፟፟፠	<u> </u>	5. Slot Size of Screen:						
Filter Pack	4.0 Ft.		6. Type of Screen Perforation: Factory Slotted 📈						
Above Screen			Hacksaw Drilled Other						
		15.0	7. Installed Protector Pipe w/Lock: Yes 🔀 No 🗌						
			WELL DEVELOPMENT INFORMATION  1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other						
FILTER PACK MATERIAL		. {							
Silica Sand			2. Time Spent on Well Development ?						
Washed Sand 📈	<u> </u>		J. Approximate Water Volume Removed ? Gallon						
Pea Gravel 🗌		<i>,</i> }	4. Water Clarity Before Development? Clear 🗌 Turbid 🗹 Opaque 🗌						
Other:			5. Water Clarity After Development ? Clear 🛛						
Sand Size #3		. {	Turbid Opaque						
Sand Size	<u> </u>	20.0	6. Did Water have Odcr? Yes No 🗹  — If Yes, Describe						
Dense Phase Sampling Cup		`.}	7. Did Water have any Color? Yes 🗌 🛮 No 📈						
Bottom Plug Yes No No		] 20.5	If Yes, Describe						
Overdrilled Material Backfill	). 5 Ft.		Water Level Summary (From Top of Casing)  During Drilling 16 Ft. Date 4-28-0						
Grout Sand Caved Material		<u> </u>	Before Development 16.28' Ft. Date 4.29.00						
Other:			After Development $13.60'$ Ft. Date $5-11-06$						
Driller/Firm Complia	nce	Drill Rig Type Mab	ile 53 Date Installed 4-28-00						
		Well No. PC 7	Kerr-McGee						
Drill Crew Wells		well No. /	16 Hydrologist Ed Krish						

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDI		LC		HENT.	DERS	.0	N NV	BORING	G PC77
DEP1	H LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG LIGG SOI SOI NINIE		BLOWS PER	PID			OIL SAMP	LE	REMARKS OR
FEE			GRA	SOIL FIELD CLASS.	6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	- 0-11 sl. silty SANT - Vf-fg, SA-SR, brow 10-15% silt										damp@z'
5.	below 6' silt inc.			SW						6.53	moist@6' -
	= ZD-25% w/ +r vc	· volc							-	4-30-00 B	**
				SM						Co	pH 7.Z - nd, 5500 -
))	-11-21 Sity gravelly	SAND,	0.11:					*****	rices and have desired the second distance of		
15	trn, vf-m, sa.se silty matrix. 20% tcaliche granules		0.	SM-GM						,	
	_ to \"	1	110								77.18 5.3.00
20			000						-		4-29-60
25	gravel  29-34 dec in grave	iche iche chified el.	000000000000000000000000000000000000000								WTR SMPL 5-2-00 PH 7-8  cond.: 6800
50	sand		.0.	5 N							
35	34-40 Sdy SILT  30-40% vfg, SA, Sa  contains 10-15% n  supported volc gri	brn, nd natrix anules	0.0		-						- - - -
П	▼ Water Table (24 Hour)				(	GRAPHIC			NU	ATE DRILLED	<i>i</i>
z	Vater Table (Time of Borin Photoionization Detection (p NO. Identifies Sample by Numb Sample Collection Method	opm)			1	CLAY			LY ANIC (DEAT)	PRILLING MET	
EXPLANATION	SPLIT- BARREL AUGER		ROCK Core			SAND			NDY NDY	Com OGGED BY	PLIANCE
EXPL	THIN- WALLED TUBE  CONTINUOU SAMPLER		SECOVE 40	RY		GRAVEL SILTY CLAY		SAI	AD E		ERISH DE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		n Feet			CLAYEY SILT				OCATION OR	GRID COORDINATES

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LLC						HENDERSON, NV				BORING PC 77		
			UNIFIED	BI OWS		K20		OIL SAMP				
IN FEET	LITHOLOGIC DESCRIPTIC	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
45-	40-44 sty gravelly brn, f-vc w/ 30-35% and pebbles of volc caliche & minor 16. 44-45 V. hard calic GRAVGL (volc & 1s.)  TD 45  (too hard to drill	: i fred		SM-GM								
Π-	▼ Water Table (24 Hour)			1		RAPHIC I				1/29 - 5		
	Water Table (Time of Boring PID Photoionization Detection (p NO. Identifies Sample by Numbe YPE Sample Collection Method	pm)				CLAY		HIGHL	Y NIC (DE LT)	RILLING METH	HOD .	
EXPLANATION	SPLIT- BARREL AUGER		OCK Ore			SAND GRAVEL			IDY Y	Comp	LIANCE	
EX	THIN- WALLED TUBE CONTINUOUS		io Ecove	RY	<b>3</b>	SILTY CLAY			i_	EJ XISTING GRAI	KRISH DE ELEVATION (FT AMSL)	
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample ir	n Feet			CLAYEY SILT			L	OCATION OR	GRID COORDINATES	

		-McGEE CORP	
	MONITORING	WELL INSTAL	LATION DIAGRAM FLUSH
Protective Pipe		Casing Cap V	Yent? Yes □ No □ MOUNT
Yes No No		Lock ? Yes [	☐ No ☐
Steel PVC	<u> </u>	Weep Hole?	Yes No No
Surveying Pin ?	Ft.	Concrete Pac	ft. xFt. xFt. x
Yes No .	TO SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SER	P V ]	DRILLING INFORMATION:
		DEPTH FROM	1. Borehole Diameter= 10 1/2 Inches.
Concrete _	Ft. p. 7	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No X Revert Bentonite Water Solid Auger Hollow Stem Auger S 3. Was Outer Steel Casing Used? Yes No X
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes ⊠ No 🗌		}	4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to 94Lb. Bag Cement & 3-5 Lb. Bentonite	)6.5 Ft.		WELL CONSTRUCTION INFORMATION:  1. Type of Casing: PVC 🛣 Galvanized 🗌 Teflon 🗍
Powder Other:	1 1	{	Stainless Other
			2. Type of Casing Joints: Screw-Couple Glue-
		16.5	3. Type of Well Screen: PVC 📈 Galvanized 🗌
			Stainless Teflon Other
Bentonite Seal	<b>3</b> Ft. ₩ ₩	\$	4. Diameter of Casing and Well Screen:
Pellets Slurry 🗌	$\overline{}$	19.5	Casing Z Inches, Screen Z Inches.
Filter Pack			5. Slot Size of Screen: 0.02
Above Screen	<u>    0                                 </u>		6. Type of Screen Perforation: Factory Slotted 🛛 Hacksaw 🗌 Drilled 🗎 Other
		29.5	7. Installed Protector Pipe w/Lock: Yes No
	1 1	121.3	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping   Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			
Silica Sand		. {	2. Time Spent on Well Development?
Washed Sand	10 Ft. ]	:}	/_ GO Minutes Hours
Pea Gravel	一一月目	. \	3. Approximate Water Volume Removed ? Gallons 4. Water Clarity Before Development ? Clear [
			Turbid 🖾 Opaque 🗌
Other:		:	5. Water Clarity After Development? Clear
Sand Size # 3			Turbid ☐ Opaque ☐ 6. Did Water have Odcr? Yes ☐ No 🗹
		139.5	- If Yes, Describe
Dense Phase Sampling Cu			7. Did Water have any Color? Yes No
Bottom Blug	- V.5 Ft. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		If Yes , Describe
Yes 📉 No 🗌		140	WATER LEVEL INFORMATION:
Overdrilled Material Backfill	5 Ft.	1	Water Level Summary (From Top of Casing)  During Drilling $\frac{9'}{}$ Ft. Date $\frac{4 \cdot 29 - 00}{}$
Grout Sand	į į	1 45	Before Development 6.53' Ft. Date 4-30-00
Caved Material 🔀 Other:			After Development 7.27' Ft. Date 5-11-00
Driller/Firm Compl	iance	Drill Rig Type Mob	Ne B53 Date Installed 5-1-00
Drill Crow Wells		Well No. PC 7	7 Kerr-McGee Hydrologist ED KRISH

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	ARY LL	·-		HEND	E R So	۱,	NV	BORING	PC 78
DEPT			UNIFIED					OIL SAMPL	.E	
IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	_				_					_
	-									-
5-	-									₩ 6.95'
								_		5-3-00
	HOLE LOCATED									PH 7.5 -
Ю.	10' 500TH OF									155 4800
	PC77.									
15 -	- See PC77 for lith								,	_
, ,	leq									_
	<u> </u>									
40	-									√ C19' 5-z-0°
20.										
22		<del> </del>							inage a su sur a unitaritativa principa	S. Francisco
	TDZZ'									_
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										_
	▼ Water Table (24 Hour)				SRAPHIC			.140	S-Z-0	
	V Water Table (Time of Boring) Photoionization Detection (ppm)			1	CLAY			DF	RILLING MET	HOD
Z	NO. Identifies Sample by Number TYPE Sample Collection Method				SILT		HIGH ORG	A NUC /DE A TV	RILLED BY	HSA
4ATIC		ROCK			SAND		SAI	NDY AY		PLIANCE
EXPLANATION		ORE			GRAVEL	\(\frac{1}{2}\)	CLA SAI	AYEY ND	ED	KRISH
ŭ	THIN- WALLED TUBE  CONTINUOUS SAMPLER	SECOVE 40	RY	1	SILTY			E>		DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample	_			CLAYEY SILT			LC	OCATION OR	GRID COORDINATES
	REC. Actual Length of Recovered Sample i	n Feet								

		-McGEE CORPORTION	DTMENT
			LATION DIAGRAM
Protective Pipe		Casing Cap V	ent ? Yes No No No No No
Yes No		Lock ? Yes [	
Steel PVC	1	Weep Hole?	Yes No No
Surveying Pin ?	Ft.	Concrete Pad	Ft. x Ft. x Inches
Yes No	The second second	PART	DRILLING INFORMATION:
		DEPTH FROM	1. Borehole Diameter= 7 1/2 Inches.
Concrete	Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used ? Yes 🗌 No 🔀
			Revert Bentonite Water
			Solid Auger Hollow Stem Auger
	1 }		3. Was Outer Steel Casing Used? Yes No 💢
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No No			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	4.5 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder		}	I.Type of Casing: PVC ☑ Galvanized ☐ Teflon ☐ Stainless ☐ Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
			Couple Other
		4.5	3. Type of Well Screen: PVC 🔀 Galvanized 🗌
Decate Coal	<b>→</b> 🔘 🕷		Stainless Teflon Other
Bentonite Seal	_ <u>_3</u> Ft.₩		4. Diameter of Casing and Well Screen:
Pellets 🔼 Slurry 🗌	→ 🛭 🖁	7.5	Casing 2 Inches, Screen 2 Inches.
Filter Pack			5. Slot Size of Screen: O.O.Z.
Above Screen _	4 Ft.		6. Type of Screen Perforation: Factory Slotted
		}	Hacksaw Drilled Other
	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	11.5	WELL DEVELOPMENT INFORMATION:
		}	I. How was Well Developed ? Bailing ☐ Pumping ☒
			Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand 🛛			/_ 60 Minutes/ Hours
Washed Sand 🗌 🔝	<u>/o</u> _ft-) '덤::	:	3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌		}	4. Water Clarity Before Development? Clear
Other:			Turbid 🔼 Opaque 🗌
Other.			5. Water Clarity After Development? Clear
Sand Size # 3			Turbid
	<u> </u>	21.5	_ If Yes, Describe
Dense Phase Sampling Cup	o J.5 Ft.	<u>:</u> }	7. Did Water have any Color? Yes 🗌 No 🔀
Bottom Plug	- C.S. Ft.		If Yes, Describe
Yes ⊠ No □		7_22	WATER LEVEL INFORMATION:
Overdrilled Material Backfill	, † <u> </u>	1	Water Level Summary (From Top of Casing)
Grout Sand	Ft.		During Drilling 19 Ft. Date 5-2-00
Caved Material 💢	1	) 23	Before Development $6.95$ Ft. Date $5-3-00$
Other:			After Development $6.86$ Ft. Date $5-11-00$
Driller/Firm Compu	IANCE	Drill Rig Type Moß	1LE B-59 Date Installed 5-2-00
			Kerr-McGee
Drill Crew WELLS		Well No. PC 78	Hydrologist ED KRISH

KERR-McGEE CORPORATION KM SUBSIDIARY					LOCATION HENDERSON, NV BORING PC					G PC 79	
	Hydrology Dept S&EA Division ドルこ しこ			RI OWS		C100					
DEP' IN FEE	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
5	Drn, 20-30% silt i  vc sd. Contains  dissem pea gravel  6-39 sity gravelly  brn, 20-30% silt in  vf-vc sd w/ 20-3  volc granules and  pea gravel, SA-SR  7-12 50% silt  15-30 tocally con  caliche cemente  30nes	SAND or/ minor	0,0	SM-GM				1			Jamp @ 5'
30	36-38 calichitie 30ne	d grave	000								
34	39-42 gravelly 5	<b>以</b> 77,	0.0	ML-	Δ	CP A PHIC	106 11	GE	ND I	PATE DRILLED	) PAGE
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Boring Photoionization Detection (photoionization Detection (photoionization Detection (photoionization Detection (photoionization Detection Method)  SPLIT-BARREL  AUGER  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of Spec. Actual Length of Recovered	Sample	OCK CORE NO RECOVE			CLAY SILT SAND GRAVEL SILTY CLAY CLAY SILTY		DEE FILL HIGH ORG SAI	BRIS  LY ANIC (PEAT)  C NDY AY  AYEY ND	PRILLING MET  HS  ORILLED BY  COM- OGGED BY  ED  EXISTING GRA	00 1 of 2

1	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C L C					LOCATION HENDERSON, NV					BORING NUMBER PC 79		
	lydrology Dept S&EA Division	KMC			DI 00:		ERZO						
DEPTI IN	LITHOLOGIC DESCRIPTION	NO.	GRAPHIC LOG	UNIFIED	BLOWS PER	PID			OIL SAMP	T		MARKS OR	
FEET				FIELD CLASS.	6,	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD C	BSERVATIONS	
	grn gray, sticky, 1	0-Z0%		ML-							·		
42	dissem matrix ouppo	202	ا اه										
	1 Bio A - 12 / (La 19)		0 ::.	SM-									
45-	4z-45 sity gravelly Si as above	AND,		311									
'	as above	/	1//			_					mc @	45	
	45-58 sity sdy of grangry, dk gry and it	LAY,	X.			-						_	
	- gingin, and gry and in	-un,	//			-						_	
L _		-		CL									
	- (49-50) Calichified 2	one	(X)										
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		ŀ	1/	1									
55-			///	}						`			
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	58-73 say SILT . cly	SILT	िर्गि.										
60-	pale bon w/ minorg	1	1										
	- 10% vf-mg, 5R-5A sa	nd in	111	1		-							
	- matrix. Mirnot gypsu- xtals throughout	m										-	
				ML.	-							_	
65-	59-60 hard, calich	ufied			1	_							
	zone	١	:	CL								_	
			111.									_	
		. (.:.)										_	
70-	- 66-73 hard, calich	itien		1									
	- 3one					-						_	
			11:									_	
	TD 73'										Property Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of t	<del></del>	
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	-					-						-	
	4					-						-	
+	▼ Water Table (24 Hour)	- And Andrews	L		(	GRAPHIC	LOG LE	GE	140 1	ATE DRILLED	1	PAGE	
1 1	<ul> <li>✓ Water Table (Z4 Hour)</li> <li>✓ Water Table (Time of Boring</li> </ul>	a)				CLAY			$\overline{}$	5-2-0	1	Z of 2	
	PID Photoionization Detection (p NO. Identifies Sample by Number	pm)			1					RILLING MET	HSA		
	TYPE Sample Collection Method	C1				SILT		ORG	LY ANIC (PEAT) D	RILLED BY	1121		
ATI	SPLIT.	P.C	) CK			SAND		SAI CLA	ADA NDA		PLIAN	CE	
EXPLANATION	BARREL AUGER		ORE			GRAVEL		CLA	AYEY ND	OGGED BY	KRIS	H	
꿃	THIN-	s N	0		l l			JAI				ON (FT. AMSL)	
	TUBE SAMPLER RECOVERY					SILTY							
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet					CLAYEY SILT				OCATION OF	GRID COOR	DINATES	
	REC. ACTUAL LENGTH OF RECOVERED	Jumple in	reet										

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM FLUSH ---- Casing Cap Vent? Yes No Protective Pipe -----MOUNT ---Lock? Yes ☐ No ☐ Yes No No Weep Hole? Yes 🗌 No 🗌 Steel PVC Surveying Pin ? --Concrete Pad Ft. x Ft. x Inches Yes 🗌 No $\square$ DRILLING INFORMATION: DEPTH 1. Borehole Diameter= S Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No 📈 Concrete GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes No Depth= to Feet. Cement/Bentonite Grout Mix Yes 🕅 No 4. Borehole Diameter for Outer Casing Inches. WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC X Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other 2. Type of Casing Joints: Screw-Couple 🗹 Other: Couple Other 3. Type of Well Screen: PVC 🗹 Galvanized 🗌 Stainless Teflon Other\_\_\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing Z Inches, Screen Z Inches. Pellets Slurry 18 5. Slot Size of Screen: 0.02" 6. Type of Screen Perforation: Factory Slotted Filter Pack Ft. Above Screen Hacksaw Drilled Other\_ 7. Installed Protector Pipe w/Lock: Yes 🗌 No 🔯 35 WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand | \_\_\_\_/\_ 60 Minutes/Hours 3. Approximate Water Volume Removed ? \_\_\_\_ Gallons Washed Sand 4. Water Clarity Before Development? Clear 🗌 Pea Gravel Turbid Deague Other: 5. Water Clarity After Development? Clear Turbid 🗌 Opaque 🗍 Sand Size #3 6. Did Water have Odcr? Yes No X If Yes, Describe 7. Did Water have any Color? Yes No X Dense Phase Sampling Cup 0.5\_Ft. If Yes, Describe Bottom Plug Yes 🕱 No 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 12 Ft. Date 5-2-00 Backfill Before Development 7-05' Ft. Date 5-11-00 Grout | Sand | 73 Caved Material 🔀 After Development \_\_\_\_\_ Ft. Date \_\_\_ Other: \_\_\_ Driller/Firm CompLIANCE Drill Rig Type Mosice B59 Date Installed 5-3-00 Kerr-McGee Well No. PC 79 ED KRISH Hydrologist Drill Crew WELLS

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA	L			HEN'	DER	<i>\</i> حد	N, N	N BORING	GR PC 80
EPTH IN FEET	LITHOLOGIC DESCRIPTIC	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE SC	DEPTH		REMARKS OR FIELD OBSERVATIONS
20	PCPO locate 10' EAST OF PC79. SEE LITH LOG OF PC79 FOR 11thology	-d	O	CLASS.				A.L.			V 12 1 5-3-00
	TD 3Z'										
<b>▼</b>		7)				RAPHIC I	OG LE		1	DATE DRILLED	ł
PII	<ul><li>D Photoionization Detection (p</li><li>D. Identifies Sample by Number</li></ul>	pm)					$\overline{\sim}$	HIGH	LY	DRILLING METH	
EXPLANATION	SPLIT- SPLIT-	RC	OCK			SAND			NDY		PLIANCE
KPLA	J BARRET	CC	ORE			GRAVEL		CLA SAN	ND YAEA	LOGGED BY	KRISH
û	THIN- WALLED TUBE CONTINUOUS SAMPLER	NC RE	COVE	RY		SILTY CLAY					DE ELEVATION (FT. AMSL)
DE R	EPTH Depth Top and Bottom of S EC. Actual Length of Recovered	ample Sample in	Feet			CLAYEY SILT				LOCATION OR	GRID COORDINATES

	-McGEE CO	RPORATION
		ALLATION DIAGRAM FLUSH
Protective Pipe	Casing (	Cap Vent ? Yes No No Movar
Yes No No	Lock ?	
Steel PVC	Weep Ho	ole? Yes No
Surveying Pin ? Ft.	Concret	e PadFt. xFt. xInches
Yes No	POVI	_ DRILLING INFORMATION:
	DEPTH FRO	DM   I. Borehole Diameter= Inches.
Concrete Ft.	BELOW TOP GRADE CAS	OF O Ware Deillies Additives Hood 2 Yes No X
		Revert Bentonite Water
		Solid Auger Hollow Stem Auger
		3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes No 🗆		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement & 9 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	}	I.Type of Casing: PVC Galvanized Teflon
Other:	}	Stainless Other
		Couple Other
	) 9	3. Type of Well Screen: PVC 🔀 Galvanized 🗌
		Stainless Teflon Other
Bentonite Seal 4 Ft.	3	4. Diameter of Casing and Well Screen:
Pellets Slurry -	13	Casing $2$ Inches, Screen $2$ Inches.
		5. Slot Size of Screen: 0.0Z
Filter Pack Above Screen 6.5 Ft.	1	6. Type of Screen Perforation: Factory Slotted 🛛
A 1000 0010011		Hacksaw Drilled Other
<u> </u>	19.5	7. Installed Protector Pipe w/Lock: Yes No 🔀
↑ (三百二	:{	WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing  Pumping
	·}	Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		2. Time Spent on Well Development ?
Silica Sand	:{	// Minutes Hours
Washed Sand N 10 Ft.	:	3. Approximate Water Volume Removed ? Gallons
Pea Gravel	. ]	4. Water Clarity Before Development? Clear
	<b>∵.</b> {	Turbid Opaque
Other:	:	5. Water Clarity After Development? Clear 💢
Sand Size #3	· {	Turbid Opaque
<b>→</b>	29.5	6. Did Water have Odcr? Yes No 🛛 No 🗔
B we Share Constitute of	:}	7. Did Water have any Color? Yes No N
Dense Phase Sampling Cup 0.5 Ft.		If Yes, Describe
Yes No D	30	WATER LEVEL INFORMATION:
Overdrilled Material		Water Level Summary (From Top of Casing)
Backfill 2 Ft.	<b>\</b>	During Drilling 12 Ft. Date 5-3-00
Grout Sand Caved Material M	32	Before Development $\frac{7.15'}{}$ Ft. Date $\frac{5-11-00}{}$
Other:	-	After Development Ft. Date
Other.		
Driller/Firm CompLIANCE	Drill Rig Type <u>N</u>	1 1 6 . 59 Date Installed 5-3-00
Drill Crew WELLS	Well No. P	Kerr-McGee Hydrologist ED KR15H

KERR-McGEE CORPORATION Hydrology Dept S&EA Division KM SUBSIDIARY KM SUBSIDIARY KM SUBSIDIARY					LOCATION HEND	ERSOI	N, N	BORIN	BORING PC 81		
DEPT		5	ر د ع	UNIFIED		PID		SOIL SAM	APLE	REMARKS OR	
FEE		N 2	LOG	SOIL FIELD	PER 6"	(ppm)	NO.	DEPT	H REC.	FIELD OBSERVATIONS	
5.	PC81 locate 10' EAST of PC80. See Log of PC79 for lithology	<u> </u>	*5	CLASS.	6'		NO.	E DEPI	H KEC.	5-3-00	
18	-									_	
118	TO 18'										
	-									_	
	_										
	-					_				_	
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	-									_	
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_	1								DATE DRILLE		
	▼ Water Table (24 Hour)					GRAPHIC			5-3		
z	PID Water Table (Time of Boring Photoionization Detection (pl NO. Identifies Sample by Number Sample Collection Method	pm)			1	CLAY		DEBRIS FILL DIGHLY DRGANIC (PEAT)	DRILLING ME		
EXPLANATION	SPLIT.	RO	CK			SAND		SANDY	Com	PLIANCE	
PLAN	BARREL AUGER	Co	RE			GRAVEL		CLAYEY SAND	LOGGED BY	KRISH	
EX	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO REC	) Cove	RY	- 1	SILTY			1	PADE ELEVATION (FT. AMSL)	
	DEPTH Depth Top and Bottom of Sc REC. Actual Length of Recovered	ample			1	CLAYEY SILT			LOCATION O	R GRID COORDINATES	

	-McGEE CORPO ROLOGY DEPAR	RTMFNT
		ATION DIAGRAM
Protective Pipe		ent? Yes   No   MOUNT
Yes No No	Lock ? Yes	] No □
Steel   PVC	Weep Hole?	Yes LJ No LJ
Surveying Pin ?	Concrete Pad	Ft. xFt. xInches
Yes No	DEDTH	DRILLING INFORMATION:
	DEPTH FROM	I. Borehole Diameter= Inches.
Concrete Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes ☐ No ☒
		Revert Bentonite Water
		Solid Auger 🗌 Hollow Stem Auger 🖾 🛒
<b>†</b>		3. Was Outer Steel Casing Used? Yes No 🕅
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes No 🗆		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement & 1 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	(	I.Type of Casing: PVC ☑ Galvanized ☐ Teflon ☐
Powder	{	Stainless Other
Other:		2. Type of Casing Joints: Screw-Couple Glue-
	1	Couple Other Galvanized Strype of Well Screen: PVC Galvanized
Ĭ <u></u>	} <del>-'</del>	Stainless Teflon Other
Bentonite Seal Ft.		4. Diameter of Casing and Well Screen:
Pellets ✓ Slurry □	_	Casing 2 Inches, Screen 2 Inches.
Felicis Z Siulty	_5	5. Slot Size of Screen: 0.07
Filter Pack	}	6. Type of Screen Perforation: Factory Slotted
Above Screen 4.5 Ft.		Hacksaw Drilled Other
	{ g <	7. Installed Protector Pipe w/Lock: Yes No
	1.3	WELL DEVELOPMENT INFORMATION:
		I. How was Well Developed? Bailing 🗌 Pumping 💢
SU TER RACK MATERIAL (F)		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		2. Time Spent on Well Development ?
Silica Sand		/ 60 Minutes/Hours
Washed Sand 🛛 5 Ft.	:{	3. Approximate Water Volume Removed ? Gallons
Pea Gravel ☐	-	4. Water Clarity Before Development? Clear
		Turbid 🔀 Opaque 🗌
Other:	: (	5. Water Clarity After Development? Clear 🛭
Sand Size #3		Turbid Opaque
	14.5	6. Did Water have Odcr? Yes No 🛣
	:\	7. Did Water have any Color? Yes No No
Dense Phase Sampling Cup O. SFt.	:	If Yes, Describe
Bottom Plug Yes No No	15	- WATER LEVEL INFORMATION:
Overdrilled Material		Water Level Thronmation: Water Level Summary (From Top of Casing)
Backfill 3 Ft.	{	During Drilling 12 Ft. Date 5-3-00
Grout Sand	] 18	Before Development 6.95 Ft. Date 5-11-00
Caved Material	) _10	After Development Ft. Date
Other:		, , , , , , , , , , , , , , , , , , , ,
Driller/Firm ConpLIANCE	Drill Rig Type Mobil	e B-59 Date Installed 5-3-00
Drill Crew WELLS	Well No. PC 81	Kerr-McGee Hydrologist Ed KR15H

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C L L C					LOCATION HENT	> ER.5	.ov	). NV	/ BOR	BORING PC 82		
DEPTI	T	9	2 1	UNIFIED	BLOWS				IL SAM			1	
IN FEET	LITHOLOGIC DESCRIPTIO	N S	GRAPHIC	SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.	TYPE	DEPTH		REMARKS OR FIELD OBSERVATIONS		
	0-3 disturbed 1	germ (	.0,0	5m-							0.5/1	7	
	maderial sty grav	ZAND !		GM							@Z'damp	+	
	3-12 sty gravelly	SAND	0:	Marie Review College Process					ediano di seni a kanandaren 3 kupe ta re	*		1	
5-	dk brn, 20% sil+	40%	0.	SM-							∇€5'	$\dashv$	
	granules & pea gravel	(3R)	0.0									$\dashv$	
	of vole. 40% vf-vi	e 5 d,	10	GM								1	
	SM-5R		0.									4	
10 -	-		:11:								_	$\dashv$	
12			2   ] -						and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		on manager fundaments.		
12	12-15 say cly 311					_						4	
	_ dkbrn, 15-25% vf.m,			ML								$\dashv$	
15 -	vole granules, stic	sm /	0:016						and the second decimal record			$\exists$	
	- 15-20 SITY SAY GRA		000									$\exists$	
	- dkbrn, SR-SA, Z0%		0000	GM								$\dashv$	
	= 25 % vf-VC sd, 5A-S		1000									$\exists$	
210-	ZO-30 sity gravelly	SAND	0.0									$\exists$	
	- dk brn, zonsilt, Ac	1% Volc !	. 0.								,	$\dashv$	
	- granules to pea grav		.1 6									$\dashv$	
25-	= 5R; Vf-YC, SR-SA 50			SM-							_	$\exists$	
			: !o:	GM								$\exists$	
			0			-						$\exists$	
			110										
30.			010.	,			ry roe Carcamor garacticida	ļ		-	-	$\dashv$	
	30-33 say sity GR	RAVEL	0.00	CA								$\dashv$	
	ak brn, 30% SA-JR,		9.19.	GM									
77	20% silt, 50% volc	7 121114	0.0									4	
35	33-39 sty gravell	SAND	60	SM-		<u> </u>					-	$\dashv$	
	as above	ľ	0 0	GM	1								
Ì	@ 38-39' gravel zone	, volc	0000	:									
	SR up to 3" diam 39-46 SITY SAND, to		0000	5M	-		-	+-	<b>_</b>			_	
F	Water Table (24 Hour)	, , , , <sub>,</sub>	(1813	1214	+-	GRAPHIC	LOG LE	GE	ו טאו	DATE DRIL			
	<ul> <li>✓ Water Table (Z4 Flour)</li> <li>✓ Water Table (Time of Borin</li> </ul>	a)				CLAY		DEE	BRIS	5-4-	1 9		
	PID Photoionization Detection (p NO. Identifies Sample by Numb TYPE Sample Collection Method	pm)			1	SILT			LY		HSA		
9	T					SAND			1	DRILLED B	mpliancE		
EXPLANATION	SPLIT- BARREL AUGER		OCK Ore		1	SAND GRAVEL				LOGGED E	BY		
EXPI	THIN- WALLED WALLED SAMPLER	S NO	O COVE	RY	ŧ	GRAVEL SILTY CLAY		SAI	1		GRADE ELEVATION (FT. AMSL)		
	TOBE				1	CLAYEY				LOCATION	OR GRID COORDINATES		
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet			1 077	J SILT		_						

KE		M SUBSIDIA	L	LC.		LOCATION HENDE	RSON	,	77	BORING	PC8Z
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	ı	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE JS	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
- - - - 45—	SA, 30% silt in 70% sd w/ minor c-vc gv. Strcky. calcareous	T I		SM							
- - - کا سے	46-50 sity gravely: dk brn, as above		0.00	5M- GM							- - -
52 - - - -	50-52 cly, sity sand red brn + grn gry. Sa vf-fg sd w/ ZoZo cla silt. Com sm caliche modules; calcareous	/		SM- SC SM- GM						,	- - - -
56 † - 60 <del>-</del> -	52-56 sity gravelly s f-c sR-sA w/zvZ silt a 305 volc + 15 pebbles to 56-67 sity CLAY, grn yellow, sticky	nd Z"		CL			m	. d	dy Ck	© 56'	- - - - -
65 — 65 —			1/2								
-	TD 67'										- - - - - -
N	,	m)				GRAPHIC CLAY SILT		DEB FILL HIGHI ORG	BRIS DE	RILLED BY	7 of Z HOD 5A
	SPLIT- BARREL  THIN- WALLED TUBE  EPTH Depth Top and Bottom of Sai REC. Actual Length of Recovered S	NO RE	COVE	RY		SAND GRAVEL SILTY CLAY CLAYEY SILT			AYEY ND	ED	LIANCE  KRISH  DE ELEVATION (FT AMSL)  GRID COORDINATES

	R-McGEE CORPORATION DROLOGY DEPARTMENT
	G WELL INSTALLATION DIAGRAM
Protective Pipe	Casing Cap Vent? Yes No No
Yes No No	Lock ? Yes  No
Steel PVC	Weep Hole? Yes No
Surveying Pin ?	Concrete PadFt. xFt. xInches
Yes No Dog To	DEPTH DEPTH DEPTH
	FROM I. Borehole Diameter= 8 Inches.
ConcreteFt.	BELOW TOP OF GRADE CASING 2. Were Drilling Additives Used? Yes No 2  Revert Bentonite Water Solid Auger Hollow Stem Auger 3. Was Outer Steel Casing Used? Yes No 2
Cement/Bentonite Grout Mix	Depth=toFeet.
Yes No 🗆	
5.5 Gallons Water to	4. Borehole Diameter for Outer Casing Inches.
94Lb. Bag Cement & 9.5 Ft. 3-5 Lb. Bentonite Powder Other:	WELL CONSTRUCTION INFORMATION:  1.Type of Casing: PVC Galvanized Teflon Stainless Other  2. Type of Casing Joints: Screw-Couple Glue-
	Couple Other
	3. Type of Well Screen: PVC 🔯 Galvanized 🗌
	Stainless 🗌 Teflon 🗍 Other
Bentonite Seal	4. Diameter of Casing and Well Screen:
Pellets Slurry -	Casing 2 Inches, Screen Inches.
Filter Pack Above Screen 33 Ft.	5. Slot Size of Screen: O 2 C  6. Type of Screen Perforation: Factory Slotted   Hacksaw Drilled Other
<u> </u>	7. Installed Protector Pipe w/Lock: Yes No
FILTER PACK MATERIAL	WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing  Pumping  Air Surging (Air or Nitrogen)  Other
Silica Sand	2. Time Spent on Well Development?
	///
Washed Sand 🛛 10 Ft.	3. Approximate Water Volume Removed ? Gallons
Pea Gravel Other: Caus-in	4. Water Clarity Before Development? Clear 🗍 Turbid 🔀 Opaque 🗍
gravel	5. Water Clarity After Development? Clear Turbid Dopaque
Sand Size	6. Did Water have Odcr? Yes No X
Dense Phase Sampling Cup 0-5 Ft.	7. Did Water have any Color? Yes No X
Yes No Overdrilled Material	WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill 9.5 Ft.	During Drilling 5 Ft. Date 5-4-00
Grout   Sand	Before Development 4.91' Ft. Date 5-5-00
Caved Material A	After Development 5.42 Ft. Date 5-11-00
Driller/Firm ComPLIANCE	Drill Rig Type Mobile 8-59 Date Installed 5-4-00
Drill Crew WELLS	Well No. PC82 Kerr-McGee Hydrologist ED KRDH

	JONING EOG 1411 0000 5	JBSIDIARY			LOCATION			1 ====			
	FRR-MCGFF CORPORATION	me a	كال			DER5	N, Ho	BORING	BORING PC 83		
DEPT	H LITHOLOGIC DESCRIPTION	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID	1	SOIL SAM		REMARKS OR		
FEE1		GRA	CLASS	6'	(ppm)	NO.	DEPTH	I REC.	HELD OBSEKANTIONS		
IN FEET 20.	PC83 is 11' NOWN  pf PC82.  See log for PC83  for lithology	T-1	FIELD CLASS.	l .	(ppm)	NO.	DEPTH	REC.	FIELD OBSERVATIONS		
35									_		
ľ	-				_				-		
	37' TD		<del> </del>						_		
									-		
	-										
H	▼ Water Table (24 Hour)			1	GRAPHIC	LOG LE	GEND	DATE DRILLE	PAGE		
	` '							5-4-	o     of		
Z	V Water Table (Time of Boring) Photoionization Detection (ppm) NO. Identifies Sample by Number TYPE Sample Collection Method			1	CLAY		DEBRIS FILL HIGHLY DRGANIC (PEAT)	1	ISA		
티티					SAND		SANDY CLAY	Com	PLIANCE		
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE		1	GRAVEL		CLAYEY SAND	LOGGED BY	KRISH		
EXPL	THIN- CONTINUOUS	NO					DANU	1	ADE ELEVATION (FT. AMSL)		
	TUBE CONTINUOUS RECOVERY			1	SILTY						
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet				CLAYEY SILT			LOCATION OF	R GRID COORDINATES		

		R-McGEE CORPO PROLOGY DEPAR	
			ATION DIAGRAM -LUSH
Protective Pipe		Casing Cap Ve	
Yes No		Lock ? Yes	1/10/07/1
Steel PVC		Weep Hole?	
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. xInches
Yes 🗌 No 🗌	100000	V D 2 V	DRILLING INFORMATION:
	100	DEPTH FROM	I. Borehole Diameter= 8 Inches.
Concrete	Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No
_		2	Revert 🗌 Bentonite 🗌 Water 🗌
			Solid Auger 🗌 Hollow Stem Auger 🔀
	1		3. Was Outer Steel Casing Used? Yes No 📈
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes 🕅 No 🗆			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	7 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder		}	I.Type of Casing: PVC Galvanized Teflon
Other:		}	Stainless Other  2. Type of Casing Joints: Screw-Couple Glue-
			Couple Other
		<u> </u>	3. Type of Well Screen: PVC 📈 Galvanized 🗌
Bentonite Seal	<b>→</b> 👹 🖁		Stainless Teflon Other
_	Ft.		4. Diameter of Casing and Well Screen:
Pellets Slurry	<b>→</b>	12	Casing Z Inches, Screen Z Inches.
Filter Pack			5. Slot Size of Screen: 0.020
Above Screen _	₹.5 Ft.		6. Type of Screen Perforation: Factory Slotted 📈  Hacksaw 🗌 Drilled 🗌 Other
		Z0.5	7. Installed Protector Pipe w/Lock: Yes No
	<del></del>	20.8	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing 🗌 Pumping 💢
FILTER PACK MATERIAL			Air Surging (Air or Nitrogen) Other
		· }	2. Time Spent on Well Development ?
Silica Sand 🗌			// DMinutes/Hours
Washed Sand ☒ _	Ft. []: []:		3. Approximate Water Volume Removed ? Gallons
Pea Gravel [			4. Water Clarity Before Development? Clear ☐ Turbid ☑ Opaque ☐
Other: caved gravel			5. Water Clarity After Development ? Clear
Sand Size #3		<u>.</u>	Turbid Opaque
Janu Oiko	→ [[目]	30.5	6. Did Water have Oder? Yes No K
			- If Yes, Describe
Dense Phase Sampling Cup	0.5 Ft.		If Yes, Describe
Bottom Plug Yes No		31	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	6 Ft.		Water Level Summary (From Top of Casing)  During Drilling 5 ' Ft. Date 5-4-00
Grout Sand			Before Development 3.82' Ft. Date 5-11-00
Caved Material 🔀	<u> </u>		After Development Ft. Date
Other:			Aiter Developinent Ft. Date
Driller/Firm Com	LIANCE	Drill Rig Type Mobile	8 · 59 Date Installed 5 - 5 - 00
Drill Crew WELLS		Well No. PC 83	Kerr-McGee 3 Hydrologist ED KRISH
Jilli Gion DOCLLS			- 1.0 crossion

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIA  KM CUBSIDIA					HENDE HENDE	RSON	١.	77	BORING PC 84		
DEPTH IN	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			IL SAMPL	.E	REMARKS OR	
FEET	Limitation of Data Military		GRA	CLASS.	6,	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
-	PC84 is 11'	NIKTH									-	
	0 F P C 83										▽ @5′	
<b>5</b> -	SEE LO OF PO	: 8z									5-5-00	
-	SEE log of PC	_				_						
-	for lithology											
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-	TD 17'											
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H-	▼ Water Table (24 Hour)			1		GRAPHIC	LOG LI	EGE	140	ATE DRILLED		
	✓ Water Table (Time of Borin	g)				CLAY				5-5.		
1 1	PID Photoionization Detection (p NO. Identifies Sample by Numb	opm)			1	SILT			LY (DEAT)		HSA	
I S	YPE Sample Collection Method	ONC)			1	SAND		SAN		RILLED BY	01.0.152	
EXPLANATION	SPLIT- BARREL AUGER		OCK CORE			,			LC	DGGED BY	PLIANCE	
EXPL	THIN- CONTINUOU	, N	10		ı	GRAVEL		SAN	VAEA		KR15 H DE ELEVATION (FT. AMSL)	
	TUBE CONTINUOU SAMPLER		SECOAE 40	RY	1	SILTY		l				
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		n Feet			CLAYEY SILT			LC	OCATION OR	GRID COORDINATES	

		R-McGEE		
				ATION DIAGRAM MOUNT
Protective Pipe		)C	asing Cap Ve	ent ? Yes No No
Yes No			.ock ? Yes [	
Steel PVC	1-5		Veep Hole?	Yes No No
Surveying Pin ? =	Ft.	1		Ft. xFt. xInches
Yes No			Joilcrete rau	
	10000	DEI	PTH	DRILLING INFORMATION:
		BELOW	FROM TOP OF	I. Borehole Diameter= Inches.
Concrete	Ft. (v.) 7	GRADE	CASING	2. Were Drilling Additives Used? Yes No
				Revert □ Bentonite □ Water □ Solid Auger □ Hollow Stem Auger ☑
				3. Was Outer Steel Casing Used? Yes No
	- [			
Cement/Bentonite Grout Mix				Depth=toFeet.
Yes 📈 No 🗌		1		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	1.5 Ft.	<b> </b>		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	<del></del>	1		I.Type of Casing: PVC太子 Galvanized 🗌 Teflon 🗌
Powder				Stainless Other
Other:				2. Type of Casing Joints: Screw-Couple Glue-
		1.5		Couple Other Galvanized Galvanized
	<del></del>	<i>⊗</i> } <del>-'.3</del> —	_	Stainless Teflon Other
Bentonite Seal	↑ 👹			<del></del>
-	/Ft•	<b>&gt;</b>		4. Diameter of Casing and Well Screen:
Pellets Slurry 🗌	<b>→</b> 👹	<b>₩</b> 2.5		Casing Z Inches, Screen Z Inches.
Eth. Deal.				5. Slot Size of Screen: 0.02
Filter Pack Above Screen _	Z Ft.			6. Type of Screen Perforation: Factory Slotted
A0010 00100				Hacksaw Drilled Other
		4.5		7. Installed Protector Pipe w/Lock: Yes No
		: 1		WELL DEVELOPMENT INFORMATION
		· ··{		I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL				
Silica Sand 🔲				2. Time Spent on Well Development ?
	- L FL() 目			// Minutes/Hours
Washed Sand 🛛 _	<u> '으</u> -'') 달	• : .		3. Approximate Water Volume Removed ? Gallon
Pea Gravel 🗌				4. Water Clarity Before Development? Clear ☐ Turbid ※ Opaque ☐
Other:	} = }	:::		5. Water Clarity After Development ? Clear 📈
- L Z	\ \frac{1}{1}	[]		Turbid Opaque
Sand Size 井3		14-5	•	6. Did Water have Odcr? Yes 🗌 No 📈
	<del>-</del>	1: 1-1-3		- If Yes, Describe
Dense Phase Sampling Cu	P 25 Ft.			7. Did Water have any Color? Yes 🗌 No 📈
Bottom Plug				If Yes . Describe
Yes No 🗌		15		- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	2 Ft.			Water Level Summary (From Top of Casing)  During Drilling 5' Ft. Date _5-5-00
Grout Sand	<u> </u>	\-		Before Development 4. Z6' Ft. Date 5-11-00
Caved Material				After Development Ft. Date
Other:	-			
Driller/Firm Compl	LIANCE	Drill Rig 1	Type Mobi	
Drill Crew WELLS		Well No.	PC 84	Hydrologist ED KR15升

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LLC				HENDERSON, NV BORING PC 85					
DEPT				UNIFIED	BLOWS			OIL SAMI		
IN FEE	LITHOLOGIC DESCRIPTIO	Ν	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.		REC.	REMARKS OR FIELD OBSERVATIONS
5.	o-No sl. slty Sant gry brn(54R4/2), s poorly sorked vf. vo 10% silt and 10% vo granules to 1/4"	Ŕ-5A,		5W						dampe 0' -
15	= 10-27 sity gravell  SAND. dk yell brn (  Z0-30% silt and 10  volc granules and polo 1/2"	-z=7.	000000000000000000000000000000000000000	sm- GM					,	
20			0,0,0,0,0,0,0							
30	30% 511+,25% vf-1 - 5d and 45% gran pebbles to 1112"	z). re,5A-s ulas+	R 0.10	: GM	1					
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Borin PID Photoionization Detection (FINO) Identifies Sample by Numb TYPE Sample Collection Method  SPLIT-BARREL AUGER  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of SINEC. Actual Length of Recovered	ss Sample	ROCK CORE NO RECOVE			CLAY  SILT  SAND  GRAVEL  SILTY CLAY  SILTY SILTY SILTY	DI FI HIC OR	EBRIS LL GHLY GANIC (PEAT)	ED  EXISTING GRA	-00 1 of Z

	ERR-McGEE CORPORATION ydrology Dept S&EA Division	KM SUBSIDI	ARY LL			HEND	ER T	۸ ه	1 11/1	/ BORING	G R P	c 85	-
DEPTH		<u> </u>		UNIFIED	BLOWS		03		OIL SAME	T T			
IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH			MARKS OR DBSERVATIO	
			0.0000										
			0000	0.11									
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1.5-	gry + 1+ brn, 5-10%	m-c		ML									'-
47	SR of grains 45-10										·····		
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50-	47-67 CLAY and :	514		1		_							_
	CLAY, interbedded.			1		-							-
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55-	47-57 modredora	nge											
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-	▼ Water Table (24 Hour)				(	GRAPHIC	LOG LI	EGF	ND I	DATE DRILLED		PAGE	
		g)				CLAY				5-10 -		2 of	2
	PID Photoionization Detection (p NO. Identifies Sample by Number				1	SILT	$\overline{\sim}$	HIGH	LY NAME (DEAT)	H	SA		
No I	YPE Sample Collection Method					SAND		SAI	THE HEAT	Compi			
EXPLANATION	SPLIT- BARREL AUGER ROCK CORE		-				YAEA YAEA	LOGGED BY					
EXPL	THIN- CONTINUOUS		10			GRAVEL SILTY		SAI	1	ED EXISTING GRA	KR15		
	TUBE SAMPLER RECOVERY			1	SILTY CLAY								
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet		T RIT	CLAYEY SILT				LOCATION OR	GRID COOR	DINATES			

	McGEE CORPO	TAFAT
		ATION DIAGRAM FLUSH
Protective Pipe	Casing Cap V	ent? Yes No No NounT
Yes No No	Lock ? Yes	☐ No ☐
Steel PVC	Weep Hole?	Yes No No
Surveying Pin ?Ft.	Concrete Pad	Ft. xFt. xInches
Yes No		DRILLING INFORMATION:
	DEPTH FROM	I. Borehole Diameter= 8 Inches.
Concrete Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No 🗹
D D	_	Revert Bentonite Water
		Solid Auger 🗌 Hollow Stem Auger 💢 📗
<b>†</b>		3. Was Outer Steel Casing Used? Yes 🗌 🛮 No 🔀
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes 🔯 No 🗆		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement & 13 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite		I.Type of Casing: PVC 😭 Galvanized 🗌 Teflon 🗌
Powder Other:		Stainless Other
		2. Type of Casing Joints: Screw-Couple Glue-Couple Other
	13	3. Type of Well Screen: PVC 📈 Galvanized 🗌
		Stainless Teflon Other
Bentonite Seal 4 Ft.		4. Diameter of Casing and Well Screen:
Pellets Slurry	17	Casing 2 Inches, Screen 2 Inches.
		5. Slot Size of Screen: 0.020
Filter Pack		6. Type of Screen Perforation: Factory Slotted
Above Screen * 15.5 Ft.		Hacksaw Drilled Other
(Caved GRAVEL)	32.5	7. Installed Protector Pipe w/Lock: Yes No
<b>十一位</b>	<u> </u>	WELL DEVELOPMENT INFORMATION:
	}	I. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL	}	Air Surging (Air or Nitrogen) Other
		2. Time Spent on Well Development ?
Silica Sand		// Minutes/ Hours
Washed Sand ☑ 10 Ft		3. Approximate Water Volume Removed ? Gallons
Pea Gravel	1	4. Water Clarity Before Development? Clear 🗌
Other:	•{	Turbid Opaque
		5. Water Clarity After Development? Clear
Sand Size # 3		Turbid
	42.5	- If Yes, Describe
Dense Phase Sampling Cup	}	7. Did Water have any Color? Yes No
Dense Phase Sampling Cup 0.5 Ft.	1	If Yes . Describe
Yes No	43	
Overdrilled Material		Water Level Summary (From Top of Casing)
Backfill 24 Ft.	1	During Drilling 7 Ft. Date 5-10-00
Grout Sand Caved Material	67	Before Development $0.33'$ Ft. Date $5-12-00$
,		After Development Ft. Date
Other:		
Driller/Firm CompLIANCE	Drill Rig Type Mob,	12 B-59 Date Installed 5-10-00
Drill Crew WELLS	Well No. PC 8	Kerr-McGee Hydrologist Ed Krish
wecc;		J 20 171141

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIA		-L C		LOCATION	= 1 <		), NV	BORING	PC 86
DEP	T	77.00		UNIFIED	BLOWS				OIL SAMP		7006
IN FEI	N LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	PID (ppm)		TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
						_					5021
											Vez'
	PC 86 is 10'6	on the									_
5		ius (				_					
	→ PC 85.										_
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П	▼ Water Table (24 Hour)				G	RAPHIC L	OG LEC	SEN	10	ATE DRILLED	PAGE
	<ul> <li>✓ Water Table (Time of Boring PID</li> <li>Photoionization Detection (p</li> </ul>					CLAY		DEBI ILL	RIS OF	5-11-	
z	NO. Identifies Sample by Number TYPE Sample Collection Method	er er				SILT		IIGHL' RGAI	Y NIC (PEAT)	HS RILLED BY	Ą
ATIO	M sour	D/	) OCK			SAND		SAN	IDY Y	Com	PLIANCE
EXPLANATION	BARREL	C	ORE		ł	GRAVEL			10	OGGED BY	< RISH
Ä	THIN- WALLED TUBE  CONTINUOUS SAMPLER	S N	O ECOVEI	RY	1	SILTY CLAY			1		DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet		1	CLAYEY SILT			LC	DCATION OR	GRID COORDINATES		
	1	- F			_l						

		McGEE CORPO	
٨			ATION DIAGRAM MOUNT
Protective Pipe		Casing Cap Ve	ent? Yes No
Yes No		Lock ? Yes [	
Steel PVC -	1	Weep Hole?	Yes No
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. xInches
Yes No No	1	-	DRILLING INFORMATION:
		DEPTH FROM	I. Borehole Diameter= 8 Inches.
Concrete	Ft. Siv	BELOW TOP OF	2. Were Drilling Additives Used? Yes No
		GRADE CASING	Revert Bentonite Water
			Solid Auger 🗌 Hollow Stem Auger 😿
	1 1 1		3. Was Outer Steel Casing Used? Yes 🗌 🛮 No 🂢
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes 💢 No 🗌			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to	)		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite	<del>~~</del>		I.Type of Casing: PVC 💢 Galvanized 🗌 Teflon 🗌
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
		, 10	Couple Other
_			Stainless Teflon Other
Bentonite Seal	3 Ft. 8		4. Diameter of Casing and Well Screen:
Pellets Slurry	j 🔛 📓	17	Casing 2 Inches, Screen 2 Inches.
	╂──隊 🕅	13	5. Slot Size of Screen: 0.020
Filter Pack	.5 Ft.	,	6. Type of Screen Perforation: Factory Slotted 📈
Above Screen 7			Hacksaw Drilled Other
_		17.5	7. Installed Protector Pipe w/Lock: Yes 🗌 No 📝
			WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping X  Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand 🔲			///
Washed Sand 🔀	10_Ft/ 目:		3. Approximate Water Volume Removed ? Gallons
Pea Gravel [			4. Water Clarity Before Development? Clear  Turbid Opaque
Other:			5. Water Clarity After Development? Clear
9		}	Turbid Opaque
Sand Size # 3	<u> </u>	27.5	6. Did Water have Odcr? Yes No 🗹
Dense Phase Sampling Cup			7. Did Water have any Color? Yes 🗌 No 📈
Bottom Plug	0.5 Ft. {	1-1	If Yes, Describe
Yes 🌠 🏻 No 🗌		28	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	2 Ft.		Water Level Summary (From Top of Casing)  During Drilling 2 Ft. Date 5-11-00
Grout □ Sand □ Caved Material 🔀		30	Before Development 0.58' Ft. Date 5-12-00
Other:			After Development Ft. Date
Driller/Firm ComPLI	ANCE	Drill Rig Type Mobi	le 659 Date Installed 5-11-00
Drill Crew WELLS		Well No. PC3	6 Kerr-McGee Hydrologist Ed Krish
I DITH CITEM WELLS		11 Ell 110   _ O	U II di di di di di di di di di di di di di

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  XMC LLC				LOCATION HEND			NV	BORING NUMBER PC 87			
DEPT				UNIFIED	BLOWS		T		IL SAMPLI	1	, , , ,
IN	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	PID (ppm)		3OI	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
5-	PC 87 located 10'EAST OF PC SEE Log of PC for lithology			CLASS							-
15			***************************************						***	`	
	- TD 15'								up. IDA	TE DRILLED	PAGE
EXPLANATION	▼ Water Table (24 Hour)  ▼ Water Table (7 Hour)  ▼ Water Table (7 Hour)  ▼ PID Photoionization Detection (p NO. Identifies Sample by Number  TYPE Sample Collection Method  ▼ SPLIT-BARREL  ▼ AUGER  ▼ THIN-WALLED TUBE  ■ CONTINUOUS SAMPLER  ■ DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	pm) RCCC NCCC NCRE	COVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAY SILT	D F	DEBRILL IGHLY RGAN ANE	DRI DRI DRI DRI DRI DRI DRI DRI DRI DRI	LLED BY  GGED BY  STING GRAN	1 of 1

	HYD	R-McGEE CORPO	TMENT
	MONITORING		ATION DIAGRAM FLUSH
Protective Pipe			nt? Yes No No MOUNT
Yes   No	<b>→</b>	Lock ? Yes [	
Steel PVC	Ft.	100	
Surveying Pin ?		Concrete Pad_	Ft. xFt. xInches
165   140	DASS A	DEPTH	DRILLING INFORMATION:
		FROM TOP OF	I. Borehole Diameter=   Inches.
Concrete	Ft.	GRADE CASING	2. Were Drilling Additives Used? Yes No No
		0.	Revert   Bentonite   Water   Solid Auger   Hollow Stem Auger
			3. Was Outer Steel Casing Used? Yes No 🛛
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No 🗌			4. Borehole Diameter for Outer CasingInches.
'_ `			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement &	0.5 Ft.		1. Type of Casing: PVC Galvanized Teflon
3-5 Lb. Bentonite Powder		}	Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 🛛 Glue-
			Couple Other
	1	0.5	
Bentonite Seal			Stainless Teflon Other  4. Diameter of Casing and Well Screen:
	Ft.		
Pellets   Slurry	<u> </u>	1.5	Casing 2 Inches, Screen 2 Inches.  5. Slot Size of Screen: 0.020
Filter Pack			6. Type of Screen Perforation: Factory Slotted
Above Screen _	Ft.		Hacksaw Drilled Other
		125	7. Installed Protector Pipe w/Lock: Yes 🗌 No 🔯
			WELL DEVELOPMENT INFORMATION:
		· <u></u>	I. How was Well Developed? Bailing 🗌 Pumping 😿
FILTER PACK MATERIAL			Air Surging (Air or Nitrogen) Other
			2. Time Spent on Well Development ?
Silica Sand	<u> </u>		//Minutes/Hours
Washed Sand 💢 _	<u>10</u> 时目		3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌			4. Water Clarity Before Development? Clear   Turbid Opaque
Other:			5. Water Clarity After Development? Clear
Sand Size # 3			Turbid Opaque
Sand Size	↓ [ ]	12.5	6. Did Water have Odor? Yes No
	-   -		- If Yes, Describe
Dense Phase Sampling Cup	0.5 Ft.	∴. <b>{</b>	If Yes, Describe
Bottom Plug Yes→ No □		<u> </u>	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	Z Ft.	1	Water Level Summary (From Top of Casing)  During Drilling $\frac{2}{}$ Ft. Date $\frac{5-11-99}{}$
Grout Sand Caved Material		15	Before Development 1-78 / Ft. Date 5-12-00
Other:			After Development Ft. Date
Driller/Firm Compl	JANCE	Drill Rig Type Mobil	e B-59 Date Installed 5-11-00
			Kerr-McGee
Drill Crew LUELLS		Well No. <u>PC 87</u>	Hydrologist ED KR15ト

1	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LLC			LOCATION HEND	É O SO	المرا	NV	BORING PC 88			
DEPT				UNIFIED	BLOWS				SAMPLE	<u> </u>	, , , ,
IN FEE	LITHOLOGIC DESCRIPTION	N dd	501	SOIL FIELD CLASS.	PER 6'	PID (ppm)		ш	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	- 0-12 Sdy GRAVE	L 1 C	00.								Jampeo'
	- pale brn (54R5/z)	) 101/	00								702'
	] 511+, 30% sd (5A-SR	V. I	0	GW							
5-	vc) and 60% vol		0 4	GW							
	- gravel (SA-5R, up+	60	000								-
	diam.	0	000						-		-
		0	000								
10-		9	000								
		00	900								_
	-12-51 slty gran		0.					ett tire biren aum	ANTONIO MARIA MARIA MARIA		
/										,	
15.	SAND. pale yell b (10YR 6/2). Var. si	1+	o ·			<u> </u>					
	20-40%. 20-30%		; :								
	- gravel to 3/4" (vole		0								_
Zo.	4	1.1		SM-							_
	- 12-21 10-20% sl	+>  :	1:	GM							_
	matrix	0									_
_		[]	12:								_
25	- 21-51 com silt in	~ matrix;	61:								
	30-40%	-									_
	4	i									
	pebbles to 3". Var. cement -32-33 v. hard. slow	w/ []	0								_
30	pebbles to 3". Var.	caliche	. 0								
	32-33 v. hard. slow	drilling	0								
	- abu caliche ceme	nt !	11:			-					_
35	•		2)								_
		·	0.								
	37-51 Var. amts o	1	0.0								_
	37-51 Var. amts of gravel (pubbles to	z")									-
	up to 50%		ं ∶०ं	·							
	Water Table (24 Hour)					RAPHIC I				-     -	OU 1 of Z
	V Water Table (Time of Boring Photoionization Detection (p					CLAY		DEBRIS ILL		LING METH	
S	NO. Identifies Sample by Number TYPE Sample Collection Method	er				SILT		rganic (f	PEAT) DRIL	LED BY	514
AATI	SPLIT- AUGER	ROC				SAND		SANDY CLAY			MPLIANCE
EXPLANATION	D BARRET	COF	RE			GRAVEL		CLAYEY SAND	Loc	ED BY	1< R 1514
ă	THIN- WALLED TUBE  CONTINUOUS SAMPLER		OVER	RY		SILTY CLAY			EXIS		DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		eet			CLAYEY SILT			LOC	CATION OR	GRID COORDINATES

K	KERR-McGEE CORPORATION KM SUBSIDIARY				LOCATION			BORING			
<u> </u>	lydrology Dept S&EA Division	KMC					ERSO	n, NV	NUMB	er PC 88	
DEPT			PHIC	UNIFIED SOIL	BLOWS PER	PID	L	SOIL SAM	PLE	REMARKS OR	-
IN FEET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	FIELD CLASS.	6.	(ppm)	NO. 5	DEPTH	REC.	FIELD OBSERVATIONS	
			.0:								1
			0.0								4
	NOTE =		0.	5M						-	$\dashv$
مسردر	Most likely this	unit	0.1	SM							1
45-	12 & Spring of flori	àl	0 11.								
	fining upward see  from gravels to si	Liment,	0.0			-			-		4
	1	170	6								$\dashv$
	- Franc gravers to		0-0								1
51			16:0				<u> </u>	and the last action last religion		Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andreas and Andrea	4
	- 51-62 sly CLAY	, grn								WG 621,	$\dashv$
	gry (5648/2) and	yell									
55-	gry (5648/2) and gry (548/1)	•	W.	0.					,	_	4
	- 3. 1		YX.	CL							$\dashv$
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60.			1	1		-				_	$\dashv$
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	▼ Water Table (24 Hour)	٠~١						DEBRIS TILL	5-12	1	
	Water Table (Time of Borin PID Photoionization Detection (	ppm)			1	CLAY			DRILLING ME		•
Z	NO. Identifies Sample by Numb TYPE Sample Collection Method	el			ΙШ	SILT		IIGHLY ORGANIC (PEAT)	DRILLED BY	15A	
ATIC	SPUT: LUCED		ROCK			SAND		SANDY CLAY	Con	APLIANCE	
EXPLANATION	BARREL AUGER CORE			GRAVEL		CLAYEY SAND	LOGGED BY	KR15H			
EX	THIN. WALLED CONTINUOUS SAMPLER NO RECOVERY	1	SILTY		-		ADE ELEVATION (FT AMSL)				
	10BE		1				LOCATION	R GRID COORDINATES			
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet				CLAYEY SILT			LOCATION O	CAID COCADINATES		

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT										
1			ATION DIAGRAM FLUSH							
Protective Pipe		Casing Cap Ve	ent? Yes No No MOUNT							
Yes No		Lock ? Yes								
Steel PVC -		Weep Hole?								
Surveying Pin ?	Ft.	Concrete Pad	Ft.xFt.xInches							
Yes No No	1		DRILLING INFORMATION:							
	0.00	DEPTH FROM	I. Borehole Diameter= 8 Inches.							
Concrete	Ft.	BELOW TOP OF	2. Were Drilling Additives Used? Yes No							
		GRADE CASING	Revert Bentonite Water							
_		<u> </u>	Solid Auger 🗌 Hollow Stem Auger 🕱							
	<b>†</b>		3. Was Outer Steel Casing Used? Yes \( \text{No } \( \text{X} \)							
Cement/Bentonite Grout Mix			Depth=toFeet.							
Yes 📈 No 🗌			4. Borehole Diameter for Outer CasingInches.							
5.5 Gallons Water to 94Lb. Bag Cement &	33 Ft.		WELL CONSTRUCTION INFORMATION:							
3-5 Lb. Bentonite			I.Type of Casing: PVC 🏋 Galvanized 🗌 Teflon 🗌							
Powder Other:			Stainless Other							
Other			2. Type of Casing Joints: Screw-Couple 🔀 Glue-							
	1 1	33	3. Type of Well Screen: PVC 🕱 Galvanized 🗌							
-		<b></b>	Stainless Teflon Other							
Bentonite Seal	4 Ft.		4. Diameter of Casing and Well Screen:							
Pellets Slurry	<b>→</b> 👹 🛙	37	Casing 2 Inches, Screen 2 Inches.							
		<b></b>	5. Slot Size of Screen: 0.020							
Filter Pack	3 Ft.		6. Type of Screen Perforation: Factory Slotted 🔀							
Above Screen		<b>※</b>	Hacksaw Drilled Other							
		40	7. Installed Protector Pipe w/Lock: Yes \( \) No \( \)							
	<u> </u>		WELL DEVELOPMENT INFORMATION:  1. How was Well Developed? Bailing  Pumping							
			Air Surging (Air or Nitrogen) Other							
FILTER PACK MATERIAL			2. Time Spent on Well Development ?							
Silica Sand			//							
Washed Sand	o Ftd		3. Approximate Water Volume Removed ? Gallons							
	一   日		4. Water Clarity Before Development? Clear							
Pea Gravel [			Turbid Opaque							
Other:	}::目		5. Water Clarity After Development? Clear							
Sand Size 2-12			Turbid Opaque							
MESH	→ ( ) 目	50	6. Did Water have Oder? Yes No							
			- If Yes, Describe							
Dense Phase Sampling Cup	0.5 Ft.		If Yes, Describe							
Bottom Plug Yes 🔀 No 🗌		50.5	- WATER LEVEL INFORMATION:							
Overdrilled Material			Water Level Summary (From Top of Casing)							
Backfill	//. 5 Ft.	{	During Drilling $2'$ Ft. Date $5-11-00$							
Grout Sand		62	Before Development 0.21 Ft. Date 5-13-00							
Caved Material			After Development Ft. Date							
Other:										
Driller/Firm CompLIANCE Drill Rig Type MoBILE B.59 Date Installed 5-11-00										
Drill Crew WELLS		Well No. PC 8	8 Kerr-McGee Hydrologist CD KR15H							

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIA		LLC	•	LOCATION HENT	ER	10.	1. 1	/ BORIN	G PC89
DEPT	н		OHIC O	UNIFIED		PID		SC	DIL SAM	PLE	REMARKS OR
IN FEE		N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	_										7CZ1
											765
_	- PC 89 located										
<u> 5</u> -	7' east of Pl	1.58									
		caa								-	
	PC89 located 7' east of Pl See log of P for lithology	C 00									_
10.	for lithology										
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30	TD 39 /	· · · · · · · · · · · · · · · · · · ·	<del> </del>	-	-			-			_
H	▼ Water Table (24 Hour)		<u> </u>			GRAPHIC	LOG LE	GE	ND	DATE DRILLED	
	✓ Water Table (Time of Boring)					CLAY		DEB FILL	RIS	5-17 DRILLING MET	
z	PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method					SILT	$\overline{\sim}$	HIGHI	Y NIC (DEAT)	DRILLED BY	HSA
ATIO	√ Sput		10Cr			SAND		AA CLA		_	PLIANCE
EXPLANATION	SPLIT- BARREL AUGER		OCK ORE		1	GRAVEL			YEY		KRISH
EXI	THIN- WALLED SAMPLER  CONTINUOUS	5	SECOVE	RY	1	SILTY			1		DE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of Sample			i	CLAYEY				LOCATION OF	GRID COORDINATES	
REC. Actual Length of Recovered Sample in Feet						y SILI					

		McGEE CORPO	
	• •	_	ATION DIAGRAM FLUSH
Protective Pipe		Casing Cap Ve	ent? Yes No No No Mi
Yes No 🗌		Lock ? Yes [	
Steel PVC	<del></del>	Weep Hole?	Yes No
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. xInches
Yes No No			DRILLING INFORMATION:
	1000	DEPTH FROM	I. Borehole Diameter=   Inches.
Concrete	Ft. Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No X Revert Bentonite Water Solid Auger Hollow Stem Auger No X 3. Was Outer Steel Casing Used? Yes No X
	<b>1 1 1</b>		
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No 🗌			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	17 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite			I.Type of Casing: PVC C Galvanized  Teflon
Powder Other:			Stainless Other
			Couple Other
		17	3. Type of Well Screen: PVC 🛛 Galvanized 🗌
			Stainless Teflon Other
Bentonite Seal	.3 Ft. ₩	<b>\$</b>	4. Diameter of Casing and Well Screen:
Pellets Slurry -		20	Casing 2 Inches, Screen 2 Inches.  5. Slot Size of Screen: 0.020
Filter Pack			6. Type of Screen Perforation: Factory Slotted
Above Screen _	4.5 Ft.		Hacksaw Drilled Other
		24.5	7. Installed Protector Pipe w/Lock: Yes 🗌 No
		1 -1.5	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL			2. Time Spent on Well Development ?
Silica Sand 🔲		: \	//
Washed Sand	_10_ft(	:{	3. Approximate Water Volume Removed ? Gallons
Pea Gravel [			4. Water Clarity Before Development? Clear  Turbid Opaque
Other:		•	5. Water Clarity After Development? Clear
Sand Size 3-12 MESH		34.5	Turbid
D Ober Oraclica C		:}	7. Did Water have any Color? Yes No 📈
Dense Phase Sampling Cu Bottom Plug	0.5 Ft.	<u> </u>	If Yes, Describe
Yes No 🗌		35	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	Ft.		Water Level Summary (From Top of Casing)  During Drilling $2$ Ft. Date $5 - 12 - 00$
Grout Sand		39	Before Development +0.08' Ft. Date 5-13-00
Caved Material X		~ <del></del>	After Development Ft. Date
Other •	-	-	,
Driller/Firm Compl	IANCE	Drill Rig Type Mab	12. B-59 Date Installed 5-12-00
Drill Crew WELLS		Well No. PC 30	G Kerr-McGee Hydrologist ED KRISH

KERR-McGEE CORPORATION  Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LL C						HENDERSON, NV NUMBER PC 90					Pr 90	
<u> </u>	Hydrology Dept S&EA Division	KMC			B) (015)	HEN.	٥ <i>د ۲</i> ۲				*   C   IV	-
DEPT IN FEE	LITHOLOGIC DESCRIPTIO	N G	GRAPHIC	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
											762'	
	- PC 90 located	10'									-	1
5-	east of PC 89.											1
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	for lithology	C 88							-			1
	for lithology										_	$\frac{1}{1}$
10 -												1
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H	✓ Water Table (24 Hour)		<u></u>		+	GRAPHIC	LOG L	EGI	END [	DATE DRILLED	1	
						CLAY		DE FII	BRIS	5-12 DRILLING MET	-00   of )	
Z	PID Photoionization Detection ( NO. Identifies Sample by Numb TYPE Sample Collection Method					SILT	$\overline{\sim}$	HIGI	HLY GANIC (PEAT)		ISA	
EXPLANATION	SPLIT. BARREL  AUGER					SAND GRAVEL		SANDY CLAY CLAYEY SAND		LOGGED BY	PRIANCE	
EXPL	THIN- WALLED CONTINUOL SAMPLER	JS R	IO ECOV	ERY	1	GRAVEL SILTY CLAY		J	1	E D EXISTING GRA	KRISH ADE ELEVATION (FT AMSL)	
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere	Sample d Sample ir	n Fee	<b>!</b>		CLAYEY SILT		]_		LOCATION OF	R GRID COORDINATES	

### KFRR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM \_\_--Casing Cap Vent? Yes No FLUSH Protective Pipe ----Lock? Yes No Yes No No MOUNT Weep Hole? Yes 🗌 No 🗌 Steel PVC Ft. Surveying Pin? --Concrete Pad \_\_\_\_\_Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches Yes 🗌 No $\square$ DRILLING INFORMATION: DEPTH X Inches. 1. Borehole Diameter= FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No 🗹 Concrete GRADE CASING Revert Bentonite Water Solid Auger 🔲 - Hollow Stem Auger 🔯 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix Yes 💢 No 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 1.5 Ft. 94Lb. Bag Cement & I.Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple Couple Other 3. Type of Well Screen: PVC 🔀 Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches, Screen 2 Pellets Slurry Inches. 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No No WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand /\_\_\_\_/ Minutes/Hours 10 Ft. Washed Sand 3. Approximate Water Volume Removed? Gallons 4. Water Clarity Before Development? Clear Pea Gravel [ Turbid Opaque Other: 5. Water Clarity After Development? Clear Opaque 🗌 Turbid 🗌 Sand Size 2-12 6. Did Water have Oder? Yes No X If Yes, Describe \_\_ 7. Did Water have any Color? Yes No No Dense Phase Sampling Cup 0.5 Ft. If Yes, Describe Bottom Plug Yes X No 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material Backfill \_Ft. Date 5-12-00 Ft. During Drilling Before Development\_ 5.64' Ft. Date 5-13-00 Grout Sand 177 Caved Material After Development Ft. Date\_ Other: Date Installed 5-12-00 Drill Rig Type Mobile Driller/Firm CompLIANCE Kerr-McGee Well No. Pc 90 ED KRISH Hydrologist Drill Crew WELLS

### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM \_\_\_-Casing Cap Vent ? Yes No No FLUSH Protective Pipe ------Lock? Yes No N Yes No No MOUNT Weep Hole? Yes No Steel PVC Ft. Surveying Pin ? --\_Ft. x \_\_\_\_\_\_Ft. x \_\_\_\_\_Inches Concrete Pad Yes 🗌 No 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= $\chi$ Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No X Concrete GRADE CASING Revert Bentonite Water 0 Solid Auger 🔲 Hollow Stem Auger 🔀 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix No Yes 🔀 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 17 Ft. 94Lb. Bag Cement & I.Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other \_\_\_ Powder Other: 2. Type of Casing Joints: Screw-Couple Couple Other \_ 3. Type of Well Screen: PVC 🗷 Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Pellets X Slurry Casing 2 Inches, Screen 2 Inches. 23 5. Slot Size of Screen: 0.020 6. Type of Screen Perforation: Factory Slotted Filter Pack 2,5 Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes . No Z6.5 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Dumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand \_\_\_\_\_/\_\_\_\_/ Minutes/Hours 10 Ft. 3. Approximate Water Volume Removed ? Gallons Washed Sand X 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: 5. Water Clarity After Development? Clear 📈 Turbid 🗌 Opaque [ Sand Size \_ Z-12 6. Did Water have Odcr? Yes No 36.5 mesh If Yes, Describe 7. Did Water have any Color? Yes No X Dense Phase Sampling Cup If Yes . Describe Bottom Plug Yes 🛛 No 🗌 37 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 10' Ft. Date 5-13-00 28 Ft. Backfill Grout Sand Before Development 4.19 Ft. Date 5-14-00 65 Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: \_\_ Driller/Firm Comperance Drill Rig Type Mobile 3-59 Date Installed 5-13-00 Well No. PC 91 Hydrologist ED KRISH Drill Crew WELLS

1	KERR-McGEE CORPORATION KM SUBSIDIARY			1 (		LOCATION		. 1		V BORING PC91		
Hy	drology Dept S&EA Division	Kmc		LLC UNIFIED		HEN	Γ			1	K 1 - 11	
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.		SAMPLI DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
5 —	o-6 gravelly 5  Mool brn (5YR4/2), 1  sorted, SA-SR. with 10  and Zo% JA-SR volc  and pebbles to Z"  6-31 = 1ty grave  SAND, midd brn  (5YR4/2), contain  silt in matrix and  volc granules and p  to 1/2" diam. Sand v  SA-SR. minor smo  calche modules	granul.	000000000000000000000000000000000000000	SW SM-					-		damp@7	
20-			000000000000000000000000000000000000000									
35-	31-40 sity sdy mod brn (5484/z silt, zsh. vt-vc s sd and 50% sR, v ls granules and sm to 1"diam.	GRAVE ). 25% A-3R volc & pebbli		(A)	\							
	▼ Water Table (24 Hour)					GRAPHIC			· .	TE DRILLED		
EXPLANATION	Water Table (Time of Borin PID Photoionization Detection (NO. Identifies Sample by Number Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  WALLED TUBE  WAS CONTINUOUS SAMPLER	ppm) ser	ROCK CORE NO RECOV	ERY		SILT  SAND  GRAVEL  SILTY  CLAY		DEBRI: FILL HIGHLY DRGANIC SAND CLAY SAND	OR OR	COM COM DIGGED BY EX	NPLIANCE  > KRISH  NDE ELEVATION (FT AMSL)	
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere		in Fee	!		CLAYEY SILT				JCAHUN OR	R GRID COORDINATES	

KERR-McGEE CORPORATION KM SUBSIDIARY						LOCATION			BORIN	DRING DO		
H	lydrology Dept S&EA Division	Kmc		<u> </u>		HEND	ER30	. V	, NV	NUMBER PC91		
DEPTI IN	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			OIL SAME	PLE	RE	MARKS OR
FEET	LITIOLOGIC DESCRIPTIO		GRA	FIELD CLASS.	6,	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD (	DBSERVATIONS
	- 40-62 sty cin	AY									MC	@ 40 -
	- 40-62 sty cur - sticky w/10% vigs	d	$V_{\ell}$								, , ,	
	- 40-42 1+ grngry(5	GY 8/1	4									
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45-		i	$\mathcal{V}_{\mathcal{L}}$									
	= 58-62 mod grn gry	(565/1)	1	}		<u> </u>				-		
	- w/10-Zol caliche	nodules	1/	CL		_						
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П	▼ Water Table (24 Hour)			1		GRAPHIC	LOG LE	GE	ND	DATE DRILLED		PAGE
	✓ Water Table (Time of Borin					CLAY		DEE	BRIS	5-13- DRILLING MET		Z of 2
	PID Photoionization Detection (p NO. Identifies Sample by Numb				- 1	SILT			ILY ANIC (PEAT)		HSA	-
<u>Z</u>	TYPE Sample Collection Method					SAND			- 1	DRILLED BY		**
AAT	SPLIT- AUGER	SPLIT- BARREL AUGER ROCK CORE							NDY AY	Cor	MPLIA	ance
EXPLANATION	RAKKET							CLAYEY _			RISH	
X	THIN- WALLED THISE CONTINUOU SAMPLER	S N	O ECOVE	RY	1	GRAVEL SILTY CLAY	EXISTING GRADE ELEVATION (FT A					
	1082					CLAYEY				LOCATION OF	S CRID COO	RDINATES
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		Feet		Turn	J SILT		_		LUCATION OF	. 3 000	

	JUNING LOG NM-5055-B	10145::			LOCATION					
	KM SUBS KM SUBS Iydrology Dept S&EA Division		1	DER.	02	N, NV	/ BORING PC 92			
DEPT		5 E 0	UNIFIED SOIL		PID		SC	OIL SAMPI	LE	REMARKS OR
FEET	LITHOLOGIC DESCRIPTION	RAP	FIELD	6'	(ppm)	NO.	YPE	DEPTH	REC.	FIELD OBSERVATIONS
IN FEET	PC 92 located 20 West of PC 91.  See loy of PC 91  for lithology	GRAPHIC	FIELD CLASS.	PER 6"		NO.	TYPE	DEPTH	REC.	dampe7'
30	- TD 30'									
П	✓ Water Table (24 Hour)				GRAPHIC	LOG L	EGI	END D	ATE DRILLED	
EXPLANATION	Water Table (Time of Boring) PID Photoionization Detection (ppm) NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT- BARREL  THIN- WALLED  CONTINUOUS SAMPLED	ROCK CORE NO RECOV	ERY				HIG ORC S.A. C.L	HLY GANIC (PEAT)  NDY AY  AYEY  ND	OGGED BY	HSA
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Samp	_\		1	CLAYEY SILT		]	L	_OCATION OF	R GRID COORDINATES

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe -------- Casing Cap Vent? Yes No Yes 🗌 --Lock? Yes ☐ No ☐ No 🗌 .Weep Hole? Yes 🗌 No 🗍 Steel PVC Ft. Surveying Pin ? ---Ft. x \_\_\_\_\_Ft. x \_\_\_\_Inches Concrete Pad Yes 🗌 No $\square$ DRILLING INFORMATION: DEPTH FROM 1. Borehole Diameter= 8 Inches. TOP OF BELOW 2. Were Drilling Additives Used? Yes No Concrete GRADE CASING Revert Bentonite Water Solid Auger 🗌 Hollow Stem Auger 📈 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix Yes 😿 No 🗔 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple 🔀 Couple Other 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: 2.5 Ft. Casing 2 Inches, Screen 2 Pellets Slurry 5. Slot Size of Screen: O. O. O. Filter Pack 6. Type of Screen Perforation: Factory Slotted 📈 Ft. Above Screen Hacksaw Drilled Dother 7. Installed Protector Pipe w/Lock: Yes . No X 11.5 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand \_\_\_\_/\_ 60 Minutes Hours 10 Ft. Washed Sand 3. Approximate Water Volume Removed? Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid 🛛 Opaque 🗌 Other: 5. Water Clarity After Development? Clear Turbid Opaque Sand Size 2-12 Mesh 6. Did Water have Odcr? Yes No 21.5 If Yes, Describe Dense Phase Sampling Cup 75 Ft. 7. Did Water have any Color? Yes No X If Yes . Describe Bottom Plug Yes No 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 10' Ft. Date 5-12-00 Backfill Ft. Before Development 4.72 Ft. Date 5.13-08 Grout Sand 30 Caved Material After Development 4.77' Ft. Date 5-14-00 Other: Driller/Firm CompLIANCE Drill Rig Type M. BILE B-59 Date Installed 5-12-00 Kerr-McGee Well No. PC 92 Drill Crew WELLS Hydrologist ED KRISH

	RR-McGEE CORPORATION Irology Dept S&EA Division	KW SUBSIDIA	L	LC			ERS	501	J, NV	BORING	G PC 93
DEPTH IN	LITHOLOGIC DESCRIPTIO	N N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			OIL SAMPI	.E	REMARKS OR
FEET			GRA	FIELD CLASS.	6'	(ppm)	ΝО.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
4	0-15 sdy GRAVE mod brn (548 4/2).3	L, 3	0.0.	ס							
-	mod brn (5 yr 4/z). 3	50%	0.0.								_
	VF-VC, SA-SR sand	and !	0.0								
5	10 % 511+.	,  .									
-	10% 511+. 60% SA-SR, volcand peobles to 2"	granules		GW							damp@6
	and peoples to a			400		<del>-</del>			-		_
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	15-40 sity grav SAND, mod brn (5	YR 4/2)	1.0.								_
_	SAND, MORE THE		0 .0.								_
20_	20-25 % silt in mate 20-30 % volc SA-Si	11%	0.10								_
_	20-30 % volc SA-S1	R. \	0 -0	-							_
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-	to 1/2-5/4".	,	10:	. 5M-							_
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35_	55-40 inc. in gr	ave (	319	0							_
_	35-40 inc. in grasses to 1-11/2"die Mod caliche cem	ented	11.0	<u>t</u>							_
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	Water Table (24 Hour)				(	GRAPHIC	log l	EGE	.140 ;	ATE DRILLED	
						CLAY	<b>2</b> %	DEE	BRIS	5 - ) S RILLING MET	1
Z TY						SILT	$\overline{a}$	HIGHLY ORGANIC (PEAT)		RILLED BY	HSA
EXPLANATION	, 71					SAND		SAI	NDY AY		MPLIANCE
IAN X	SPLIT: BARREL AUGER ROCK CORE					GRAVEL				OGGED BY	KR13H
EXP	THIN- CONTINUOU	OUS NO RECOVERY				SILTY CLAY	حت	JAI	1		ADE ELEVATION (FT AMSL)
	TUBE SAMPLER  EPTH Depth Top and Bottom of SREC. Actual Length of Recovered	Sample		;KY	1	CLAY CLAYEY SILT		]	L	OCATION OF	R GRID COORDINATES

К	KERR-McGEE CORPORATION KM SUBSIDIARY				LOCATION BORING						$\neg$
Н	Hydrology Dept S&EA Division KMC LLC					) ERSO	7,47	NUMBER PC 93			
DEPTI		M H	UNIFIED SOIL FIELD CLASS	BLOWS PER	PID	I .	OIL SAM	PLE		AARKS OR	
IN   FEET	LITHOLOGIC DESCRIPTIC	N AG	[일   FIELD CLASS.	٠.	(ppm)	14 PE	DEPTH	REC.	FIELD O	BSERVATIO	NS
	40-57 SHY CLAY	1							MCC	401	
	aly SILT, interbe		A								
<b> </b>	paleolive (10 y 6/2)		1								$\dashv$
45-	1+ grn gry (56 y 8/ +3'; mod grn gry (5	1) to	AICL-	-							
	45'; mod grn gry (5	G 5/1) ]	MI					-			
	to 50'; pale olive	to 57			<u> </u>						-
	5-157, dissem vf-				-						-
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	5-10% vfg sand disse	· 1 *									
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T	▼ Water Table (24 Hour)				GRAPHIC	LOG LEC	SEND	DATE DRILLE	1	PAGE	<u></u>
	✓ Water Table (Time of Boring)				CLAY	D E A F	EBRIS ILL	5-13 DRILLING ME		2 of	<u>ــــــــــــــــــــــــــــــــــــ</u>
	PID Photoionization Detection (NO. Identifies Sample by Numb			į.	SILT	FT H			HSA	<del>.</del>	
NO NO	TYPE Sample Collection Method							DRILLED BY			
Ā	SPLIT- AUGER		SAND		SANDY CLAY	LOGGED BY	PLIAM	JCE			
EXPLANATION	BARREL	DRE		GRAVEL		CLAYEY SAND	ED	KR	HZI		
X	THIN- WALLED SAMPLER THRE	JS NC	) Covery	R	SILTY CLAY	EXISTING GRADE EI			,,		
	TUBE		COVERT	1				LOCATION OR GRID COORDINATES			
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere	Sample d Sample in	Feet	1 17	CLAYEY			COCATIONO	GRID COOR	CHALLS	

#### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM FLUSH \_\_\_\_Casing Cap Vent ? Yes No No Protective Pipe ------ Lock? Yes No No MOUNT Yes No No Weep Hole? Yes 🔲 No 🗍 Steel PVC Ft. Surveying Pin ? --Concrete Pad Ft. x Ft. x Inches Yes 🗌 No 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 8 Inches. FROM **BELOW** TOP OF 2. Were Drilling Additives Used? Yes No 🛛 Concrete GRADE CASING Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🕅 3. Was Outer Steel Casing Used? Yes No Depth= to Feet. Cement/Bentonite Grout Mix Yes 🛛 No 🗌 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other \_\_\_ Powder Other: 2. Type of Casing Joints: Screw-Couple Couple Other \_ 3. Type of Well Screen: PVC 📈 Galvanized 🗌 23 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches, Screen 2 Inches. Pellets Slurry 25 5. Slot Size of Screen: 0.020 6. Type of Screen Perforation: Factory Slotted Filter Pack 2.5 Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes 🗌 No 😿 27.5 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand / 60 Minutes/Hours Ft. 10 3. Approximate Water Volume Removed ? \_\_\_\_ Gallons Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: 5. Water Clarity After Development? Clear X Opaque 🗌 Turbid [ Sand Size \_\_\_ 6. Did Water have Odcr? Yes No 📈 37.5 If Yes, Describe 7. Did Water have any Color? Yes No No Dense Phase Sampling Cup 0.5 Ft. If Yes, Describe Bottom Plug 38 Yes No WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 10 / Ft. Date 5-13-00 19 Ft.i Backfill Before Development 3.89 / Ft. Date 5-15-00 Grout Sand 57 Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: Driller/Firm COMPLIANCE Date Installed 5-13-00 Drill Rig Type Kerr-McGee Well No. PC 93 ED KRISH Drill Crew WELLS Hydrologist

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY KM SUBSIDIARY KM SUBSIDIARY						LOCATION HENDERSON, NV NUMBER PC 94					
DEPT		<u> </u>		UNIFIED	BLOWS			OIL SAM			
IN FEET	LITHOLOGIC DESCRIPTION	М	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	14 PE			REMARKS OR FIELD OBSERVATIONS	
				CLAJS.							
	-					_				_	
5-										Jamp @ 51 _	
-	PC 94 locati									_	
	10'east of PC								-	_	
		1				_				DG 10'	
10 -	See by of PC	93									
	for lithology					_				_	
	- 1(2,13)4									_	
15									,		
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20											
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25				-							
	TD 251										
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	-									_	
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	-									_	
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						-					
										-	
										-	
	▼ Water Table (24 Hour)					GRAPHIC		LIND	DATE DRILLE	1	
	Water Table (Time of Borin Photoionization Detection (	ppm)			1	CLAY	D FI		DRILLING ME	THOD	
z	NO. Identifies Sample by Numb TYPE Sample Collection Method	er				SILT	OF OF	GHLY RGANIC (PEAT)	DRILLED BY	HSA	
ATIC	SPUT.						SANDY CLAY			OMPLIANCE	
EXPLANATION	BARREL	SPLIT- BARREL AUGER CORE					VEL SAND		ED KRISH		
EX	VVALLED CAMPIED	WALLED TONINGOUS 1/100			i	SILTY		EXISTING GRADE ELEVATION (			
	1086		LCOVE	- 13.1	1	CLAYEY SILT			LOCATION O	R GRID COORDINATES	
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere		n Feet			r ziri					

### KFRR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM TLUSH \_\_\_-Casing Cap Vent? Yes No Protective Pipe ----Mount ---Lock? Yes 🗌 No 🗍 Yes 🗌 No $\square$ Weep Hole? Yes No 🗌 Steel PVC Ft. Surveying Pin ? --\_\_Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches Concrete Pad Yes 🗌 No $\square$ DRILLING INFORMATION: DEPTH 1. Borehole Diameter= $\chi$ FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No Concrete GRADE CASING Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 📈 3. Was Outer Steel Casing Used? Yes No 😿 Depth= to Feet. Cement/Bentonite Grout Mix Yes 🔯 No 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC A Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple Glue-Couple Other 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches, Screen 2 Pellets Slurry 5. Slot Size of Screen: 0-020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Z.5 Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes . No 9.5 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand / 60 Minutes/Hours 10 Ft. Washed Sand 3. Approximate Water Volume Removed? \_\_\_\_ Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid 🛛 Opaque 🗌 Other: 5. Water Clarity After Development? Clear Turbid | Opaque 🗍 Sand Size 2-12 mesh 6. Did Water have Odcr? Yes No 17.5 If Yes, Describe \_\_\_ Dense Phase Sampling Cup 0.5 Ft. 7. Did Water have any Color? Yes No No If Yes, Describe Bottom Plug Yes No 🗌 Zo WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 10 / Ft. Date 5-14.00 Backfill Ft. Before Development 4.54 Ft. Date 5-15-00 Grout Sand 25 Caved Material After Development \_\_\_\_\_ Ft. Date\_\_ Other:\_ Drill Rig Type Mobile B-59 Date Installed 5-14-00 Driller/Firm CompLIANCE Kerr-McGee Well No. PC 94 Hydrologist ED KRISH Drill Crew WELLS

	ERR-McGEE CORPORATION				LOCATION HENDERSON, NV BORING PC 95					
	lydrology Dept S&EA Division			BI UMZ		T		L SAMPL	1	
DEPTI IN FEET	LITHOLOGIC DESCRIPTIO	Z GRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.		DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	0-7 BERM MATE	. 0								werez'
	= sly gravelly SAN	1:3	: 5M-							_
			[] GM							705
> -		10	1.							
	7-35 slty grave	دااع اف	ō -							
10-	SAND, Palebra		;							@10' WTR SMPL
ľ	(5 YR 5/2). 20%									field cond 13,000
	matrix. 30% vole to sm pea gravel (s	granule:	0 1							PH 7.4 -
	to sm pea gravel (3	K-3A)	: 5M.		_				``	_
15-	+ 1" diam. - 50% sa-sR, Vf-VC	0.	: GM							
	30% SA-81K, VF-VC	g sanal			-					_
		0.1	o.							
20	_	: ] 2	.0.							_
	7)-35 (200   200	1.0	2:0							
	caliche cement	Tri	- 0		_					_
25	- 21-35 com. hard catiche cement in gravelsize to: - Com 15. pebbles	311.	0- 0-							_
	- Com 15. pebbles	4	 7.							
		0.0	2 o							
30	-	0.1	0		Market Market					
		0.	10		_					_
		0	0.001.0							
		3,0,7	0.		-					-
35		SAND						mallionen kan il kirk halda oʻzuni, maled Jackir di		
	- pale yell brn/104R	6/2)	∭SM	\						_
38	35-38 SITY  Pale yell brn(10YR  30% silt in matrix.  1xf-mg, SA-SR	sand is	0:0 5m	t t						_
H	Water Table (24 Hour)	1.0	,,, <sub>1</sub> G1		GRAPHIC	LOG LE	GE	NU ;	ATE DRILLE	
					CLAY		DEB FILL	RIS D	5-14	
7	PID Photoionization Detection () NO. Identifies Sample by Numb TYPE Sample Collection Method			-	SILT		HIGHL ORGA	Y .NIC (PEAT)	RILLED BY	HSA
ATION	M cour		<i>(</i>		E SAND		SA1	1DY	Com	PLIANCE
EXPLANATION	SPLIT. BARREL  AUGER	ROCI			GRAVEL	K-S		YEY	OGGED BY	D KRISH
EX	THIN- WALLED TUBE  CONTINUOU SAMPLER	JS NO RECO	OVERY	- 1	SILTY CLAY			1		ADE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of	Sample		E	CLAYEY SILT				OCATION O	R GRID COORDINATES
	REC. Actual Length of Recovere	a sample in Fi								

KERR-McGEE CORPORATION Hydrology Dept S&EA Division					LOCATION B					BORING NUMBER PC 95		
DEPTH		달,	UNIFIED		PID		so	IL SAMPL	E [	REMARKS OR		
IN FEET	LITHOLOGIC DESCRIPTION	GRAPHIC	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS		
	38-43 gravelly slt	y :1:	. 5M-							_		
	SAND, Paleyellowbri	n and o	i: GM							-		
43	dusky yell grn (5645/2) 5,14, 25 % granules and gravel to 1/2-3/4". 40%	.35%	1						<del> </del>	mc@43		
45_	gravel to 1/2-3/4". 40%	vf-ma	/ML-	-						_		
	SR-SA sand, Colcareon	s 9/1/	/ CL		<del></del>			-		1		
	CIAY, interbedded. Mod	914	1							-		
5n_	yellgrn (5GY6/z). Dry	. [1					_					
	TD 50	V								-		
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H	▼ Water Table (24 Hour)			+	GRAPHIC	LOG LE	GE	ND DA	ATE DRILLED	PAGE		
1 1	<ul><li>✓ Water Table (24 Hour)</li><li>✓ Water Table (Time of Boring</li></ul>	<b>3</b> )			CLAY				5-14			
	PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method	pm)		1	SILT		HIGH	LY	RILLED BY			
EXPLANATION	SPLIT- AUGER	ROC			SAND		SAI CLA		2000			
PLAN	BARREL	COR			GRAVEL	\(\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\f{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\fra	CLA	AYEY LC	OGGED BY			
EX	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECO	OVERY	1	SILTY SILTY SILTY			E)	XISTING GRA	ADE ELEVATION (FT AMSL)		
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet				CLAYEY LOCATION OR GRID COORDINATES				R GRID COORDINATES			

	н	DR	OLOGY	DEPAR	ORATION RTMENT ATION DIAGRAM FLV5H
Protective Pipe		<u> </u>	Ca	sing Cap Ve	ent? Yes No Mount
Yes No N		<u>}</u>	Lo		
Steel PVC	1	$ \overline{} $	W	eep Hole?	Yes No No
Surveying Pin ?	Ft.		C.	oncrata Pad	Ft. xFt. xInches
Yes No				onor etc 1 au	DRILLING INFORMATION:
	v. ∨ , v	P	DEP		
		* b	BELOW	FROM TOP OF	1. Borehole Diameter= Inches.
Concrete _	Ft.		GRADE	CASING	2. Were Drilling Additives Used? Yes No \( \)  Revert \( \) Bentonite \( \) Water \( \)
		· · ·			Solid Auger 🗌 🛮 Hollow Stem Auger 🔀
	1 1				3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix					Depth=toFeet.
Yes 📉 No 🗌					4. Borehole Diameter for Outer CasingInc
5.5 Gallons Water to					WELL CONSTRUCTION INFORMATI
94Lb. Bag Cement &	15 Ft.				1. Type of Casing: PVC Galvanized Teff
9-5 Lb. Bentonite			•		Stainless Other
Other:					2. Type of Casing Joints: Screw-Couple X G
•					Couple Other
	<u> </u>		15		3. Type of Well Screen: PVC 📓 Galvanized 🗌
					Stainless 🗌 Teflon 🗌 Other
Bentonite Seal	5 Ft.		}		4. Diameter of Casing and Well Screen:
Pellets Slurry			20		Casing $Z$ Inches, Screen $Z$ In
	1-8	<b>***</b>			5. Slot Size of Screen: 0.020
Filter Pack	4.5 Ft.				6. Type of Screen Perforation: Factory Slotted [
Above Screen	4.5				Hacksaw Drilled Other
			24.5		7. Installed Protector Pipe w/Lock: Yes 🗌 No 💆
		4	}		WELL DEVELOPMENT INFORMAT
		<u>-</u> ]:::	{		I. How was Well Developed? Bailing 🔲 Pumping
		3	1		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL	} } }	<u> </u>	}		2. Time Spent on Well Development ?
Silica Sand 🔲		=1. :			/_60 Minutes/Hours
Washed Sand 😿	10 Ft.	∃ ::			3. Approximate Water Volume Removed ?
Pea Gravel [					4. Water Clarity Before Development? Clear
Other:		∄::	.]		Turbid 🔼 Opaque 🗌 5. Water Clarity After Development? Clear 🔀
	,   {:: <u> </u>	<b>=</b>	.{		Turbid Opaque
Sand Size 2-12 Mest	6   }E	∃ .	1		6. Did Water have Odcr? Yes No
	<u> </u>	<b>=</b>	34.5		- If Yes, Describe
Dance Phace Samaling C.	· 1 - 1::1		:}		7. Did Water have any Color? Yes No
Dense Phase Sampling Cu Bottom Plug	0.5 Ft.		1		If Yes , Describe
Yes No 🗌	<b>→</b> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>J</b>	35		- WATER LEVEL INFORMATION
Overdrilled Material				_	Water Level Summary (From Top of Casing)
Backfill	15 Ft.		{		During Drilling 5 Ft. Date 5-1
Grout Sand			50		Before Development Z. OZ' Ft. Date 5-17
Caved Material			.)		After Development Ft. Date
Other:	_				Ti. Date
Driller/Firm Compl	IANCE		Drill Rig T	ype Mobi	le B-59 Date Installed 5-15-00
37.11			· · · · · · · · · · · · · · · · · ·		Kerr-McGee

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C L L C			-	LOCATION HENT	DER50	N. N		BORING NUMBER PC96					
	I			UNIFIED	BLOWS		T	SOIL SAM		T				=
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC	SOIL FIELD CLASS.	PER 6'	PID (ppm)	NO.			REC.		MARKS ( )BSERVA		S
	0-6 BERM MATER	AL	0.0.											
_	GREETLY SAND, b		0.0.	e, \							dam	n @ 2	e	4
-			0.0	SM		_					dan	P & J		$\dashv$
-			00											-
\ , —			-00								7 0	ى ج		
6 -	6-7 Organic -ric	h.		0 L		747076								
' -	Silt, Skary		10-											4
-	- ·	ال در ه				_								$\dashv$
10-	7-44 SILTY gr SAND, mod yell b	irn	0											$\dashv$
-	(10 y R 5/2), 20-256	11												1
	•	3.17	0-	SM-										
	In matrix, 20-25 %	volc	-0.1:	) 21VI-						`,				4
15-	and is granules and	pebble	2	GM	\	-								$\dashv$
-	Lo 3" diam.		0			-								-
-	Sandis rf-vc, 5R-					-								-
-	- w/ minor c-vc disse	بسر ا	-0-											1
20_	caliche nodules		0.0											
	7-28 gravel is gran	nules	0.0											4
	and pea gravel size	e to	0											-
	1/2" diam, SR-R		·ò.'	1		_								-
				-										-
125 -	- 28-31 hard zone		0 1											
	- Coliche amente	α,	0											
			. 0.0											-
	7. 1/4 1	1 1	01.0											$\dashv$
30-	31-44 com grav - 2" Jiam w/ minor	e 1 40	11/2	5.		-								-
	- 2" Jiam w/ mmo	c 3 "	0.0											_
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35-			1-0 1-	o										
			0.0			-								
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				o -										
			.0.0											
-	▼ Water Table (24 Hour)					GRAPHIC			j	DRILLED		PAGE )	of Z	
	Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Boring)     Water Table (Time of Bor					CLAY	EXA F	DEBRIS ILL	1	ING MET		l		
	PID Photoionization Detection (NO. Identifies Sample by Number				1 m	SILT		IIGHLY			HSA	+		
NO T	TYPE Sample Collection Method				- 1			ORGANIC (PEAT)	DRILL	ED BY		_		
TAT	SPLIT-		ROCK			SAND		SANDY CLAY	1.060	GED BY	m PLI	anc	ت.	
EXPLANATION	BARREL		CORE			GRAVEL		CLAYEY SAND		ET	) VP	H31.		
X	THIN- WALLED CONTINUOL	ıs 🗌	МО		1	SILTY CLAY			EXIST	1999-	DE ELEVAT		1SL)	
	TUBE SAMPLER		RECOV	ERY	ł									
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere	Sample d Sample	in Fee	1	M	CLAYEY SILT			LOCA	ATION OF	GRID COO	RDINATES		
	Actual Length of Recovere	o Joinpie	m ree											

	KERR-McGEE CORPORATION KM SUBSIDIARY				LOCATION			, /	BORING PC96			
Hyd	drology Dept S&EA Division	KMC		LC		HENT	CR50	n	, NV	NUMBER PC 96		
DEPTH			GRAPHIC LOG	UNIFIED SOIL		PID		SC	IL SAMP	LE	REMARKS OR	
FEET	LITHOLOGIC DESCRIPTION	DN	LO AP	FIELD	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
			0,	CLASS.	-			-				
_			0.0	5M-								
_			000	GM							-	
111			0 0									
44.	44-47 51+4 SAN	ID	1									
	1) 257	9/1)		2M								
47 -	17 gry 11 arige (10 / 12)	<i>0  <del>4</del>  .</i>										
	It gry orange (10 YR) Vf - fg, mod well sort SA - SR. Minor mg w/	ed, 1	1//								mc@47' -	
_	SA-SR. Minor mg w/	000.	1//	- C L								
50-	thin granule beds.	Very	17/2/					-				
-	calcareous		$\prod$								-	
_	47.50 slty sdy	CLAY,	$\parallel$									
-	mod yell arn (5646	/z)	$\parallel$									
	mod yell grn (5046 Matrix contains 20-3	11 is 20	1							,		
_	and 10-20% rfg st	1,1,20x	1									
-	1222 5 2016 149 31	· Jana	/			_					_	
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	Water Table (24 Hour)				T.	GRAPHIC	LOG LE	GE	ND C	DATE DRILLED		
1 1	Water Table (Time of Boring)	) (a)			8777	CLAY		DEE	BRIS	5-15		
F	PID Photoionization Detection (	(mag			- 1				1	DRILLING MET		
	IO. Identifies Sample by Numb YPE Sample Collection Method	er			ΙШ	SILT		HIGH ORG	ANIC (PEAT)	DRILLED BY	HSA	
	· · · · · · · · · · · · · · · · · · ·					SAND		SAI	1		MPLIANCE	
EXPLANATION	SPLIT- BARREL AUGER		ROCK Core		1				Ti.	LOGGED BY	TOTATION	
191 F			J J L			GRAVEL	7.7	SAI	AYEY ND	ED	KRISH	
X	THIN- CONTINUOL	ıs 🚺	NO	Env	- 1	SILTY			1	EXISTING GRA	ADE ELEVATION (FT AMSL)	
	TUBE		RECOVI	EKT	1							
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere		in Fact		1 10	CLAYEY SILT				LOCATION OF	R GRID COORDINATES	
	Actual Length of Recovere	- Jumpie	reet						l			

### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM FLUSH \_\_\_\_Casing Cap Vent ? Yes No Protective Pipe -------Lock? Yes \ No \ Yes No MOUNT Weep Hole? Yes No Steel PVC P Ft. Surveying Pin ? --Concrete Pad Ft. x \_\_\_\_\_ Inches No 🗌 Yes 🗌 DRILLING INFORMATION: DEPTH FROM I. Borehole Diameter= Inches. TOP OF **BELOW** 2. Were Drilling Additives Used? Yes No X Concrete GRADE CASING Revert Bentonite Water 0 Solid Auger Hollow Stem Auger 📈 3. Was Outer Steel Casing Used? Yes No 🛛 Depth= to Feet. Cement/Bentonite Grout Mix Yes 🔯 No 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & I.Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple 📈 Couple Other 3. Type of Well Screen: PVC 🔀 Galvanized 🗌 15 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches. Screen 2 Inches. Pellets N Slurry 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No 29 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand / 60 Minutes/Hours 10 Ft. Washed Sand 🔯 3. Approximate Water Volume Removed? Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: \_\_\_\_ 5. Water Clarity After Development? Clear Opaque [ Turbid [ Sand Size 2-12 Mesh 6. Did Water have Odcr? Yes \( \simeq \) No \( \simeq \) 39. If Yes, Describe 7. Did Water have any Color? Yes No M Dense Phase Sampling Cup If Yes . Describe Bottom Plug Yes 🔀 No 🗍 39-5 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 6 Ft. Date 5-15-00 Backfill Ft. Grout Sand Before Development 2.89 Ft. Date 5-16-00 50 Caved Material After Development Ft. Date\_\_ Other: \_ Driller/Firm Compliance Drill Rig Type Mobile B-59 Date Installed 5-15-00 Kerr-McGee Drill Crow WELLS Well No. PC 96 Hydrologist ED KR 15 H

MS PID (ppm)	NO.	SO 14 pE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS  damp @ 3'
		<u>i</u>	-	-	_
			-	-	▽@6'
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					-
CLAY SILT SAND GRAVEL SILTY CLAY		DEB FILL HIGHL ORGA SAN	BRIS  LY ANIC (PEAT)  NDY AY  AYEY  ND	5-16 DRILLING ME  DRILLED BY  Com LOGGED BY	-00   of 2
	CLAY  SILT  SAND  GRAVEL	CLAY  SILT  SAND  GRAVEL  SILTY  CLAY	CLAY  SILT  SAND  GRAVEL  SALT  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY	CLAY  SILT  SAND  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY  CLAY	CLAY  DEBRIS FILL  DRILLING ME  DRILLING ME  DRILLING ME  DRILLED BY  CLAY  CLAY  CLAY  CLAY  CLAY  SAND  CLAYEY  SAND  CLAYEY  SAND  EXISTING GR  EXISTING GR

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	Hydrology Dept S&EA Division KMC LLC			HENDERSON NV					NUMBER PC97		
DEPTH			S E	UNIFIED		PID		SC	IL SAMP	LE	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	c-vc, SR, Sand.		1:1:	5 M							_
42 -	silt in matrix. Calc		1.1.								_
43 -	42-43 sty gravelly	SAND	10:01	5W			-				dense + dry
-	pale yell brn. Gravels 3/4" Jian w/ minor cel	up to	KH	ML-		-					MC @ 43
45-	1/4" diam w/ minor call	che /	11 12:1	CL			<b></b>				
-	cement, catearcous		11			_					_
	43-45 dy sdy SIL								•		
_	1+ grn gry (5648/1)	,10-20%	11								_
-	clay in matrix, 10- Vi-fy sand . Calca	2 %	1								
-	Vi-fy sand. Calca	reous,	I								_
-	w/ mmor sm. caliche,	rodules	1								_
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1 1	Water Table (24 Hour)					GRAPHIC			.140	5-16-	1
	<ul> <li>✓ Water Table (Time of Boring</li> <li>PID Photoionization Detection (</li> </ul>					CLAY	ž's	FIL	BRIS L	DRILLING ME	THOD
1   1	NO. Identifies Sample by Numb YPE Sample Collection Method					SILT		HIGH	AAHC (DEAT)	DRILLED BY	HSA
ATIC	SPLIT- I ALICER		ROCK			SAND		SA CL	NDY AY	Com	PLIANCE
EXPLANATION	BARREL AUGER		CORE		::	GRAVEL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CL SA	AYEY ND		KR154
EX	THIN- WALLED TUBE  CONTINUOU SAMPLER	ıs 🗌	NO RECOV	'ERY	1	SILTY S CLAY		]		EXISTING GR	ADE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample  REC. Actual Length of Recovered Sample in Feet					CLAYEY SILT		] _		LOCATION O	R GRID COORDINATES
1 1	~				1						

### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM FLUSLI ----Casing Cap Vent ? Yes No Protective Pipe ----MOUNT \_\_\_\_Lock? Yes No Yes No Weep Hole? Yes No Steel PVC Ft. Surveying Pin ? --Concrete Pad Ft. x Ft. x Inches Yes 🗌 No 🗍 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 8 Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No Ft. Concrete GRADE CASING Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 📈 3. Was Outer Steel Casing Used? Yes No X Depth= to Cement/Bentonite Grout Mix Yes 📈 No 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC X Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other \_\_ 2. Type of Casing Joints: Screw-Couple M Glue-Other: Couple Other \_\_\_\_ 13 3. Type of Well Screen: PVC 🛛 Galvanized 🗌 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches, Screen 2 Inches. Pellets X Slurry 20 5. Slot Size of Screen: 0.020 6. Type of Screen Perforation: Factory Slotted 🔀 Filter Pack Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No. No. 23 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand 10 Ft. 3. Approximate Water Volume Removed ? \_\_\_\_ Gallons Washed Sand 🔀 4. Water Clarity Before Development? Clear Pea Gravel Turbid M Opaque Other: \_\_\_ 5. Water Clarity After Development? Clear Turbid [ Opaque [ Sand Size 2-12 mesh 6. Did Water have Odcr? Yes No 33 If Yes, Describe Dense Phase Sampling Cup 0.5 Ft. 7. Did Water have any Color? Yes . No X If Yes, Describe Bottom Plug 33.5 No 🗌 Yes 🔀 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material \_\_\_ Ft. Date 5-16-00 Backfill During Drilling \_\_\_\_\_ Before Development 0.26 Ft. Date 5-17-00 Grout | Sand | Caved Material After Development \_\_\_\_\_ Ft. Date \_\_\_ Other: Driller/Firm Compulance Drill Rig Type Mobile B-29 Date Installed 5-16-00 Kerr-McGee Well No. PC 97 Hydrologist ED KRIJH Drill Crew WELLS

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY			HENDERSON, N					V BORING PC 100		
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	М	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	ΝО.	TYPE SC	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
5 — - - 10 — - - - 15 —	0-18 gravelly SAI mudyell brn (10 y R5/6 silt, 25% volc gran sm pubbles up to 1"	0/254	0.0.0.0.0.0.0.0	SW					_		damp@16
25_	18-29 sty sdy Go 14 brn (5YR5/4). 20-2 20-25% poorly sorted Vf-vc sd 50% volc granule pebbles to 3" Locally hard thin callchified zone	s and	0,000,000,000,000,000	sw							
36	Locally hard thin calichified zone  29-36 sty SANT  yell brn (10486/4).  w/com m-cg, SR-  25-30% silt. Very  calcareous. Minor  size caliche nodu  36-45 sty grav.  mod yell brn (1048  25% silt, 25% volc	SA, - m-vc - Mes	000000000000000000000000000000000000000	SM SW	,						-
EXPLANATION	Water Table (24 Hour)  Water Table (71 Hour)  Water Table (71 Ime of Borin Photoionization Detection (10 Identifies Sample by Number Sample Collection Method  SPLIT BARREL  THIN WALLED TUBE  DEPTH Depth Top and Bottom of REC. Actual Length of Recovere	ng) ppm) er  US  Sample	ROCK CORE NO RECOVE	ERY .		GRAPHIC  CLAY  SILT  SAND  GRAVEL  SILTY  CLAY  SILTY  CLAY  SILT		DE FIL HIGH ORC SA CL	BRIS L CANIC (PEAT) TO AY AY AYEY ND	OGGED BY	-00 1 of Z

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C  LLC			-	LOCATION HEND	G ER PC 100					
DEPTH			20	UNIFIED		PID		SOIL SAM	NPLE	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTIO	N :	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	DEPTH	H REC.	FIELD OBSERVATIONS
	and sm pebbles; vf-		0-0-							
		:0		5W						_
_	42-45 sity gran		0 0	•						-
45_	SAND, gry oran pin		5:0:							
-	(54R 6/z) 10% clay	, 20%				_				MC not
_	to 1/8 - 1/2" dissemthr	graviole							-	reached -
_	Very calcareous w/mi	nor				-				
	Very calcareous w/mism. caliche nodules									
_	TD 45'									
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1	Water Table (24 Hour)			.1	+ (	GRAPHIC	LOG LEG	GEND	DATE DRILLE	1
1 1	Z Water Table (Time of Borin	g)				CLAY		DEBRIS	5-18	
P	Photoionization Detection (p. Identifies Sample by Numb	opm)			1	SILT		NGHLY DRGANIC (PEAT)	January Mc	HIA
ON IN	(PE Sample Collection Method					_			DRILLED BY	
NAT	SPLIT- AUGER	RC	OCK ORE		1	SAND		SANDY	Com	PLIANCE
EXPLANATION			JNL			GRAVEL		CLAYEY SAND	ED	KRIIH
ω	THIN- WALLED CONTINUOUS NO RECOVERY			Z	SILTY	EXISTING GRADE ELEVATION (FT AMSL)				
0	DEPTH Depth Top and Bottom of Sample			m	CLAYEY	$\Box$ .		LOCATION O	R GRID COORDINATES	
	REC. Actual Length of Recovered Sample in Feet									

### KFRR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM FLUSH \_\_\_\_Casing Cap Vent ? Yes No No Protective Pipe ----Mount ----Lock? Yes 🔲 No 🗍 Yes No No Weep Hole? Yes No Steel PVC Ft. Surveying Pin ? ---Concrete Pad Ft. x Ft. x Inches Yes 🗍 No 🗍 DRILLING INFORMATION: DEPTH Inches. 1. Borehole Diameter= FROM **BELOW** TOP OF 2. Were Drilling Additives Used? Yes No Concrete GRADE CASING Revert Bentonite Water 0 Solid Auger 🔲 Hollow Stem Auger 📈 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix Yes X No 🗆 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other \_ Powder 2. Type of Casing Joints: Screw-Couple K Glue-Other: Couple Other 3. Type of Well Screen: PVC 🕱 Galvanized 🗌 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing 2 Inches, Screen 2 Inches. Pellets X Slurry 5. Slot Size of Screen: 0.020 6. Type of Screen Perforation: Factory Slotted 🔀 Filter Pack Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No X WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? \_\_/\_60 (Minutes/Hours Silica Sand | 30 Ft. 3. Approximate Water Volume Removed? Gallons Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque 5. Water Clarity After Development? Clear Other: Opaque [ Turbid 🔲 Sand Size 2-12 MESH 6. Did Water have Oder? Yes 🗌 No 🛛 38.5 If Yes, Describe 7. Did Water have any Color? Yes No 🛛 Dense Phase Sampling Cup of 5 Ft. If Yes . Describe Bottom Plug Yes ⊠ No □ 39 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling Z5 Ft. Date 5-18-00 Backfill 1.0 Ft. Before Development 14.03 Ft. Date 5-19-00 Grout Sand Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: \_\_\_ Driller/Firm Campliance Drill Rig Type Mobile B-59 Date Installed 5-18-00 Kerr-McGee Hydrologist ∈D KRISH Well No. PC 100 Drill Crew LOYA

P-A 6/03

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LL			<u></u>	LOCATION Henc	lerse	n	, NV	BORIT	NG PC 100 R	
DEPTH		E 0	UNIFIED					DIL SAN		REMARKS OR
FEET	LITHOLOGIC DESCRIPTIO	GRAPHI LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTI	H REC.	FIELD OBSERVATIONS
_	gry brn W/10-15%	ND,			_					start drilling _
-	gry brn w/10-15%	511+	15W							@ 8:30 am _ finish @ 9:00 _
4	20-30% volc grand pea gravel. Vf-vo	les to o.º						Market and a second		
`-			:   SW		<u> </u>					_
7 ¬	4.7 SAND, gry br	nw/	-1 -							_
_	granules to 1/0". f	V. SM 0.00	BOW		_					A deposit con-decided company and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th
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_	resand	000	0		E					_
15	9-11 SAND, brn, w/ 51/+ + 5-10% v.sn	10%	0							_
-	f-va, SA sand	1 gran.	).		_	,				_
_	11-25 Sdy GRAVE		SGW							VC18'
_	brn w/5-10% silt	0.00	0		_	1				and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
20-	25-30% vf-vc, SR-5		0		-	1				
	Grav. up to 2" (ave		3.							-
-	3/4") volc w/min		3							
-	caliche coatings	0.00	0		-					_
-	25-27 SAND brn	, mod :::	SW	A STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE				Mindre of the Property of the Section		
27 -	51ty (15-20%). Calco	creous. 000				<del> </del>		or top Zerby was a possion to the		After a militaria no inclusio antique de segue de segue antique de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de segue de
	1 w/ 10-15 % sm vole g	ranules 00	SW							-
30-			0	ļ	Waster Commonwealth			Portion Browner - Management	Mary Mark Wash Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the Congress of the	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
-	27-30 say GRAV	10 3(11)								_
-	clean, vf-vc sd		: 5W							
-	30-35 SAND , brn	, vf-c			<u> </u>					<del>.</del>
5-	w/minorva, SA-SR. 10 silt, calcareous	7-15/2	<u>:</u>	1		<b> </b>	-			
-	35-38 SIty SAND/SE var amts of silt in v	1 y 51 LT	5M							_
38 -	varamts of silt in v	f-f9 100	1 GM/	-	-	-	-			aured zukonsommer en en sterne van de lasten op de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten van de lasten
	lsa-srsd	11.0.	SM	<u> </u>						_
<b>Y</b>	, , , , , , , , , , , , , , , , , , , ,				RAPHIC			<del>"</del>	B-16	1 -
D					CLAY		DEB FILL	RIS	DRILLING MET	THOD
Z TY	<ol><li>Identifies Sample by Number</li></ol>				SILT		HIGHL ORGA	Y NIC (PEAT)	DRILLED BY	RCUSSION
EXPLANATION	SPLIT-	Poc			SAND		SAN	- 1	LA	YNE
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	BARREL	ROCK		1	GRAVEL			Ì	LOGGED BY	
X I	THIN- WALLED CONTINUOUS						AAC	l l		KRISH ADE ELEVATION (FT. AMSL)
	TUBE	RECOV	ERY	1	SILTY					
	EPTH Depth Top and Bottom of S EC. Actual Length of Recovered				CLAYEY				LOCATION OF	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LLC				LOCATION HEND	ERS	0 N	, NV	BORING PC100R		
DEPTI IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC 10G	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6'	PID (ppm)	NO.	TYPE	DIL SAMPL	REC.	REMARKS OR FIELD OBSERVATIONS
40.5	SAND. brn. 20-2  SII+ and 10-2076 V  SM granules. SA-SK  VC Sd.  40.5-41.5 H grn  CLAY W/ gyp x+a  TD 41.51	-520 ole 2 vf -								TE DRILLED	MC @ 40.5 1
1	<ul><li>▼ Water Table (24 Hour)</li><li>∇ Water Table (Time of Boring</li></ul>	١١				CLAY			40	8-16.	-00 2 of 2
1	PID Photoionization Detection (p NO. Identifies Sample by Numbe	pm)						ACH!	,   ~	PERC	HOD ,US510N
S	TYPE Sample Collection Method	( <del></del> -			1			ORGA	MC (PEAT) DRI	LAY	
ANA	SPLIT- BARREL AUGER		OCK ORE		2.20	SAND			100	GGED BY	
EXPLANATION	THIN-				ı	GRAVEL		SAN	1	ED	KRISH
"	WALLED TUBE CONTINUOUS		O ECOVE	RY		SILTY			EXI	STING GRA	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered		Feet			CLAYEY SILT			LO	CATION OR	GRID COORDINATES

	HYD	R-McGEE CORP Rology Depa	ORATION RTMENT FLUSH
	MONITORING	WELL INSTAL	LATION DIAGRAM FLUSH MOUNT
Protective Pipe		Casing Cap V	/ent ? Yes No C
Yes No C		Lock ? Yes	
Steel PVC	<del></del>	Weep Hale ?	Yes 🗌 No 🗋
Surveying Pin ?	Ft.	Concrete Pac	ft. xFt. xInches
Yes No	( V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PEV	DRILLING INFORMATION:
	302	DEPTH FROM	I. Borehole Diameter= 9 Inches.
Concrete	/_Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes 🗌 No 💢
		<u>김</u>	Revert Bentonite Water
		··	_ Solid Auger  Hollow Stem Auger
			3. Was Outer Steel Casing Used ? Yes No 🔀
Cement/Bentonite Grout Mix			Depth=toFeat.
Yes No			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	4 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder			I.Type of Casing: PVC Galvanized Tefton
Other:			Stainless Other
			• ,
		5	Couple Other Galvanized Galvanized
	<b>T</b>	×	Stainless Teflon Other
Bentonite Seal	5 Ft. ₩ ₩	8	4. Diameter of Casing and Well Screen:
Pellets Slurry	o	<b>§</b> 10	Casing 2 Inches, Screen 2 Inches.
		<u> </u>	5. Slot Size of Screen: 0.040
Filter Pack Above Screen _	5 Ft.		6. Type of Screen Perforation: Factory Slotted 🗵
Andre Octaen -			Hacksaw Drilled Other
	1	15	7. Installed Protector Pipe w/Lock: Yes No
		A	WELL DEVELOPMENT INFORMATION:  1. How was Well Developed ? Bailing  Pumping
		::{	Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		`. <b>\</b>	2. Time Spent on Well Development ?
Silica Sand	[]		<u> </u>
Washed Sand	15 FU 目		3. Approximate Water Volume Removed ? Gallone
			4. Water Clarity Before Development ? Clear
Pea Gravel		⅓	Turbid Opaque
Other:		<i>∴</i> {	5. Water Clarity After Development ? Clear
Sand Size 8-12		<b>∵</b> }	Turbid Opaque
Gaile Gize	→	1 40	6. Did Water have Oder? Yes No
		.:\	7. Did Water have any Color? Yes No
Dense Phase Sampling Cu Bottom Plug	) 0.5 Ft.		If Yes . Describe
Yes No		1) 40.5	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	Ft.		Water Level Summary (From Top of Casing)  During Drilling 18' Ft. Date 2-16-00
Grout   Sand		41.5	
Caved Material		J	Before Development Ft. Date Ft. Date $\sqrt{3.64}$ Ft. Date $\sqrt{8-17-00}$
Other:			At cer Development 1000   Ft. Date 0 1   000
Driller/Firm HovemA	NN/LAYNE	_ Drill Rig Type AF	
Drill Crew	•	Well No. PC 10	DR Hydrologiet Ed Krish
L	<del></del>		

	RR-MCGEE CORPORATION	M SUBSIDIARY	_ C		LOCATION HENDE	ERS'ON	) , NV	BORIN NUMB	G ER PC 101
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	SRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)		SOIL SAM		REMARKS OR FIELD OBSERVATIONS
5	0-15 gravelly SA.  14 brn (5YR 5/4). I  silt in sd matrix. Sa.  15 poorly sorted, A-S:  Vf-Vc.  15-207, volc granu  and sm pebbles to 3,  A-SA.  Locally com. calicle  cement	nd ::0	SW						30 FT N30E -
15-	15-25 sdy GRAVE 1+ brn (5485/4) 50	0.00						•	damperi'
Z0	to 3". A-SR. locally thin callchified 30, 10-20% silt in sd m poorly sorted, vf-vc.	nes, or	5, GN	1					
30-	25-50 Slty gravell  5AND, mod yell bry  (10 YR 6/4). 10-20 Yo.  Vf-YC, SR-SA sdma  30 %, volc granules an  pebble: ave. to 1" bu  minor pebbles to 3".  Very cal careous. Los  hard calishe ceme  **  Probably alternati	silt in  trix  also  ally  ally  ally	S W	/					▼@ Z5'
EXPLANATION	FINING UPWARD FLOV  SEQUENCES (IE GRAV. >>  Water Table (24 Hour)  Water Table (Time of Boring Photoionization Detection (pp. Identifies Sample by Number Sample Collection Method  SPLIT. BARREL AUGER  THIN. WALLED TUBE  DEPTH Depth Top and Bottom of Screen	) om) r  ROCK CORE  NO RECO			GRAPHIC  CLAY  SILT  SAND  GRAVEL  SILTY  CLAY  SILTY  CLAYEY  SILT		GEND  DEBRIS FILL  HIGHLY  ORGANIC (PEAT)  SANDY  CLAY  CLAYEY  SAND	COM LOGGED BY EXISTING GR	THOO THOO TO I OF Z THOO TO I OF Z

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  HENDERSON	, NV BORING PC 101
	SAMPLE
	DEPTH REC. REMARKS OR FIELD OBSERVATIONS
	_
	_
	-
45 48-50 hard, calichified 10:	
avanally SAND (om.	
gravelly SANT. (om. 1):	-   -
Porons.	-
50	
50-52 SITY CLAY, IT WCL	MC@50'-
52 - grn gry (5GY 8/1). non-	
- calcareous. Sticky	
dense, dry. Minor gypsum xtals.	`  -
gypsum xtals.	
52'TD	
	_
	_
	_
	_
	_
	_
	_
	-
	_
	-
	-
▼ Water Table (24 Hour) GRAPHIC LOG LEGEND	D DATE DRILLED PAGE
✓ Water Table (Time of Boring)  CLAY  CLAY  CLAY  DEBRIS	S S-18-00 Z of Z
PID Photoionization Detection (ppm) NO. Identifies Sample by Number	HSA
TYPE Sample Collection Method  SAND  SAND  SAND  SAND  SAND  SAND	DRILLED BY
1=1   Y   3Ptill:   121 August   12   KOCK	LOGGED BY
BARREL CORE GRAVEL SAND	ED KRISH EXISTING GRADE ELEVATION (FT. AMSL.)
WALLED TUBE CONTINUOUS NO RECOVERY CLAY	
DEPTH Depth Top and Bottom of Sample	LOCATION OR GRID COORDINATES

	HYDRO	McGEE CORPO	TMENT
МО			ATION DIAGRAM FLUIH
Protective Pipe			ent? Yes No No MOUNT
Yes No N		Lock ? Yes [	] No []
Steel PVC		Weep Hole?	i
Surveying Pin ?	_Ft.	Concrete Pad	Ft. xFt. xInches
Yes No	100	DEPTH	DRILLING INFORMATION:
		FROM	1. Borehole Diameter= 8 Inches.
Concrete	_Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No
Ţ		0	Revert   Bentonite   Water   Solid Auger   Hollow Stem Auger
-			3. Was Outer Steel Casing Used? Yes No 🛛
O	1 1 1		Depth=toFeet.
Cement/Bentonite Grout Mix			
Yes No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No Solution No			4. Borehole Diameter for Outer Casing Inches.
94Lb. Bag Cement &	Ft.		WELL CONSTRUCTION INFORMATION:  1. Type of Casing: PVC Galvanized Teflon
3-5 Lb. Bentonite Powder	{     }		Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
		,	Couple Other
		_6	3. Type of Well Screen: PVC 🔯 Galvanized 🗌 Stainless 🗍 Teflon 🗍 Other
Bentonite Seal			4. Diameter of Casing and Well Screen:
4	_Ft.		Casing Z Inches, Screen Z Inches.
Pellets Slurry -	₩₩	10	5. Slot Size of Screen: 0.02.0
Filter Pack		,	6. Type of Screen Perforation: Factory Slotted
Above Screen 4.5	_Ft.	•	Hacksaw Drilled Other
		14.5	7. Installed Protector Pipe w/Lock: Yes No
<del>-</del>			WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Deumping
EN TED DACK MATERIAL			Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL	(: 日: )		2. Time Spent on Well Development ?
Silica Sand	(: [달리		// Minutes/Hours
Washed Sand X 35	_[1] []		3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌			4. Water Clarity Before Development? Clear  Turbid  Opaque
Other:	}: 目::		5. Water Clarity After Development? Clear 💢
Sand Size Z-12 Mesh			Turbid Opaque
Sand Size Z 1		49.5	6. Did Water have Odcr? Yes No. No.
			7. Did Water have any Color? Yes No
Dense Phase Sampling Cup ol.	5 Ft	{	If Yes, Describe
Bottom Plug Yes No No		50	WATER LEVEL INFORMATION:
Overdrilled Material			Water Level Summary (From Top of Casing)
Backfill 2	. Ft.	1	During Drilling ZS Ft. Date5-18-00
Grout Sand	1	52	Before Development 19.01 Ft. Date 5-19-00
Caved Material 🖾 🔟			After Development Ft. Date
Other:			a
Driller/Firm Com PLIAn	C E	Drill Rig Type Mob	11eb-59 Date Installed 5-18-00
		Well No. PC 10	Kerr-McGee
Drill Crew LUYA		Well No. TC 10	1 113 di viograti CD 13700

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LLC					HENDERSON, N					BORING NUMBER PC 101 R			
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	SOIL SOIL FIELD CLASS.		BLOWS PER 6'	PID (ppm)	NO.	TYPE	DIL SAM		REMARKS OR FIELD OBSERVATIONS			
- -	grybrn, volc, 25 SA. vt-vc sd in g	L -30% ranule	00,000,000								start hole @ _ IPM, end 1:45p _			
-	pea gravel to 84" 10-20% silt 5-10 grav. slty 9 gry brn, zo-30% sil-	AND	0000	GM/										
)0— - -	30% granules/sm per gravel in vf-vc, 5 9-10' colichified	ia -	0.0000								damp@14'-			
- 15' <b>-</b> -	brn to gry brn, 25 vf-vc, SA sand w/ amts of thin (2.3")	-30 % var.	000000000000000000000000000000000000000	GW		_					WTR@ ZO' -			
- 20 — -	vich layers. Grave vole granule-pea g size up to 3/4", A-s	lis	000000000000000000000000000000000000000											
Z6 -	20'-22' 70% f-rc : 30% granules 22'-23' Volc cobble Up +0 4"	- lays	6 a	77										
30 <u> </u>	Sd and granules  26-30 sity SAND  20-25% silt in f-vo	, brn,	0.00								-			
-	30-38 sdy GRAVE brn. Coarsens down Sandier (60%) 7[30'- topvf-vc, sr-sA	٤٢,	000								- -			
38	Top vf-vc, sR-sAu grading down to sdy gravel: 37-38' 1"-4"	o/ aranul	12.00	GM/		GRAPHIC	106.19	GE	NO I	DATE DRILLE	- PAGE			
P 7	Water Table (24 Hour)  Water Table (Time of Boring Photoionization Detection (p Identifies Sample by Number Sample Collection Method	pm)				CLAY SILT	7	DEE	IRIS	8-16 DRILLING MET	-00 / of Z			
EXPLANATION	SPLIT- BARREL  AUGER	C C	OCK ORE			SAND GRAVEL		SAN	AD (AEA 'A	LA: LOGGED BY	YNE KRISH			
D	WALLED TUBE  DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample	O ECOVE	RY	1	SILTY CLAY CLAYEY SILT					ROE ELEVATION (FT. AMSL)			

	ERR-McGEE CORPORATION drology Dept S&EA Division	KMSUBSID		HEND	EKS	0 \	I, Nu		BORING	G PC 101 R		
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	ON	GRAPHIC	UNIFIED SOIL FIELD	BLOWS PER 6'	PID (ppm)	NO.	SC E	DEPTI		REC.	REMARKS OR FIELD OBSERVATIONS
	38-40 sltygrav	2/1/2	1000	CLASS.	•		110.	Ĕ		-	RCC.	
_	SAND, gry brn.	zo-25%	1.000									-
43 -	silt and zox volc	aranole	6.00.	31.1					College and section of			
_	silt and zox volc	Jr-4c	11.0	/								-
_	SR sand			GW								<del></del>
47 -	40-43 Sdy GRAVE		d 0 0									
_	gry brn. 25-306 vs.		1600	GM/								-
_ 51 _	sd in gran./peagran	なると	000	5M						İ		_
JI -	w/minor /-Z"		1	C L / N	<u> </u>							MUDBY CREEK
-	43-47 sty gravell					_						© 51'
	brn, 20-25 6 51/4, 20	0-25%				_						-
	gran. to 1/4" in vf-ve		4									
_	47-51 SAY GRAVE		The state of the									-
-	Z51 VF-VC SR Sd in a											_
	pea gravel, SR-FA, 7 49-51 hand calichifi											_
-	177-51 Mark Eastern											-
-	51-51,5 cly sILT/	5/4										_
- Marie	CLAY, It gin, m	nor				_						-
	xtals	ypsom				_						_
-		en konstalar etakan kilokalar kilokalar kan kan kilokalar kilokalar kilokalar kilokalar kilokalar kilokalar ki										-
-	515'TD											-
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-	1					-						-
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¥	(=:::==:/					RAPHIC L			10	DATE D	FILLED	OO Z of Z
PI	D Photoionization Detection (p	pm)							- 1	ORILLIN	IG METH	OD ,
NO TY	O. Identifies Sample by Numbe PE Sample Collection Method	:r								DRILLE	DBY	N2219N
EXPLANATION T	SPLIT-		OCK		1	SAND		SAN CLA'		LOGGE		NE
PLA    -	J BAKKEL		ORE			GRAVEL		CLA' SAN	YEY D			KRISH
ũ	THIN- WALLED TUBE CONTINUOUS SAMPLER	R	IO ECOVER	RΥ	<b>23</b>	SILTY CLAY						E ELEVATION (FT. AMSL)
DI	EPTH Depth Top and Bottom of Si REC. Actual Length of Recovered	لـــا ample Sample in	Feet		1	CLAYEY SILT				LOCATI	ON OR C	GRID COORDINATES

	ŧ	IYDR	-McGEE CORP Hology Depai	RTMENT
	MONITOR	ING	WELL INSTAL	LATION DIAGRAM FLUSH
Protective Pipe				Yent? Yes   No   Mount
Yes No	1	<u> </u>	Yes [	
Steel PVC	<del></del> }- <sub>1</sub>	$\neg \Gamma$	Weep Hale ?	Yes No No
Surveying Pin ?	Ft.		Concrete Pac	fFt. xFt. xInches
Yes No	1	1	PIVI	DRILLING INFORMATION:
	13		DEPTH FROM	I. Borehole Diameter= 9 Inches.
Concrete	Ft.		BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No)
				3. Was Outer Steel Casing Used? Yes 🗌 No 💢
Cement/Bentonite Grout Mix				Depth=toFeet.
Yes 🛛 No 🗌				4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to				WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & 3-5 Lb. Bentonite Powder	5 Ft.			I.Type of Casing: PVC Galvanized Teflon Stainless Other
Other:				2. Type of Casing Joints: Screw-Couple X Glue-
	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			Couple Other
	· 🛊 💮		5	3. Type of Well Screen: PVC 🕱 Galvanized 🗌
				Stainless Teflon Other
Bentonite Seal	10 Ft.		<b>§</b>	4. Diameter of Casing and Well Screen:
Pellets Slurry	<u> </u>		15	Casing 2 Inches, Screen 2 Inches.
				- 5. Slot Size of Screen: 0.040
Filter Pack	Ft.		3	6. Type of Screen Perforation: Factory Slotted 🗵
Above Screen	7 6			Hacksaw Drilled Other
			20	7. Installed Protector Pipe w/Lock: Yes 🗌 No 📈
		=		WELL DEVELOPMENT INFORMATION:
				I. How was Well Developed? Bailing Pumping
#5D 010/ 114#50111		日:	·}	Air Surging (Air or Nitrogen) 😿 Other
FILTER PACK MATERIAL	-   -   -   -   -   -   -   -   -   -	<b>F</b>	• ]	2. Time Spent on Well Development ?
Silica Sand	}			1hr / 45 min Minutes/Hours
Washed Sand 🗍 🔝	30 Ft.	H	:{	3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌	1	目		4. Water Clarity Before Development ? Clear
Lag Olgan []	\ \.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\	目	·{	Turbid Opaque
Other:	<b>}</b> :	目	<u>:</u> }	5. Water Clarity After Development ? Clear
Sand Size 8-12	:	目:	. {	Turbid Opaque
Sand Size			50	6. Did Water have Odor? Yes No [
	1	<b>一</b> 。		- If Yes, Describe Organics
Dense Phase Sampling Cup	0.5 Ft.1:	1 1:	:}	7. Did Water have any Color? Yes No
Bottom Pjug -	1	44	50.5	If Yes . Describe whitish
Yes 🛛 No 🗌	4-1	نك	4- <del>30.3</del>	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	1.0 Ft.		1	Water Level Summary (From Top of Casing)  During Drilling 20 Ft. Date 8-16-00
Grout Sand	7.0		1	
Caved Material	1		51-5	After Development 19.54 Ft. Date $\frac{\sqrt{3}-00}{2}$
Other:				After Development 17.57 Ft. Date Y-18-00
Driller/Firm Harma	nn/Lay	he	Drill Rig Type AF	
Drill Crew			Well No. PC 1	OIR Kerr-McGee Hydrologist ED KRISH

P-A 6/03

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division					LOCATION HEN	DER.	ه ک	N, NV	BORIN	G ER PC 102
DEPTH	LITUOLOGIC DECCRIPTIO		물일	UNIFIED	BLOWS PER	PID		sc	DIL SAM	PLE	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTIO	N .	GRAPHI 10G	FIELD CLASS.	6'	(bbw)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
_	0-8 GRAVEL . gry	brn,	000								start 11AM.
-	51. sdy (10-15) m-va	2	000								Finish 11:30 am -
_	sl slfy (10%). Gra	v.up	000	GP							wetco'
_	to 4", ave 1/2"		2000								WTR@Z'
-			0000								1
8 -			0000						I continue de la companya de la companya de la companya de la companya de la companya de la companya de la comp	to the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac	
-	8-14 51ty SAND & S		10:01	<m <="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>dry 8-9'</td></m>							dry 8-9'
_	say GRAVEL, intert		~	5m/							wet@9'
_	8-9 brn, slty (40%),	rt-tsd	10.0	GM							
-	9-11 brn sity sdy gra		10.11								-
14 -	30% silt, 20% f-csd.	50%									- Application by the control of the application of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of
-	peagravel to 1"			ML/		_					_
-	11-14 brn, slty vf-f s	a		SM							_
19 -	14-19 Sdy SILT and		00.0					ļ	····		to a supplier formation and an annual translating the graphy photocological parties of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the con
-	SAND, interbedded		000	GW			1				-
22 -	to Harnish brn. vf.	-f sd	0.00.0				ļ				
-	19-ZZ SAY GRAVEL	gry ,		SM							_
24	brn, 30-40 % rf-vc, 1 in gran. / pen gravel,	4-5R SO	0.00	<u> </u>			ļ	-	**********		Contract approximation and structure approximation for the con-
-	to 1/2" (vole)	JK - K,	0.00	GM/			1				
- ا	22-24 Slty SAND, b	rn	000	5M							
28	30% silt in vf-fg sd		0.00				<del> </del>	1-	*************		
-	24-28 51+4 5dy 6RA	AVEL,	000.0								
-	dec silt from 30% @ Za	+ 15 15%	0.000	GW		-					_
	@ 28'. brn, f-mw/cg		10200	1							
-	The grav/gran to 1/2-3		0.000	,		-					<del>-</del>
36	28-36 Say GRAVEL		0000								_
.	brn & whtish. Contain 15. gravels. 20-30% f	-VC;SR	1000	SM		_					
72	sd in gran/peagrave 1" w/up to 6" locally	lave	اناواز	sm		_					_
39	I" w/up to 6" locally	<u> </u>	00.00	EW				1_			to addicipate Control Mathematics or dependence on the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of
4	, ,					RAPHIC			1	8-17-	1
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<ul> <li>Water Table (Time of Boring</li> <li>Photoionization Detection (p)</li> </ul>					CLAY		DEB FILL	RIS	PRILLING MET	HOD
1 1	<ul> <li>O. Identifies Sample by Number</li> <li>'PE Sample Collection Method</li> </ul>					SILT		HIGHL ORGA	NEC (OCAT)	PER C	CU2210N
EXPLANATION	Z) SDIIT		<b>3</b> 64			SAND		SAN			YNE
NA /	SPLIT- BARREL AUGER		OCK ORE		8.00	GRAVEL		CLA	Ī	OGGED BY	V0111
EXP	THIN- CONTINUOUS		0		i			1Ac		E D	KRISH-
	TUBE		ECOVER	RY	1	SILTY					
	EPTH Depth Top and Bottom of Sc REC. Actual Length of Recovered		Feet		873	CLAYEY			T	OCATION OR	GRID COORDINATES
		4			<u></u>						

	ERR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIARY	LLC		HENT	PERS	01	J, NV	BORIN	G ER PC 10Z
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	GRAPHIC	UNIFII SOIL FIELD CLASS	D BLOWS PER 6'	PID (ppm)	NO.	TYPE SC	DEPTH		REMARKS OR FIELD OBSERVATIONS
45-	28-30 volc, no 1s below 30' 50/50  \$ 15.  @ 35' cobbles to 4"  @ 36' cobbles to 6"  36-39 sity sdy GRF  gran/pea gravel co zo-30% silt \$ zo- f-vc 58 sd  38-39 volc cobbles  gry wht + brn, SR, g  of 1s + volc to 2-3".  30% f-vc, SR sd. Lo caliche coateol:  @ 47-49 com silt iv to 25-30%  no hard celiche lik PC 99R  TD @ 50'	VEL 15. 000  TO 6  Tavels  w/ 20-  cally  matrix	50000000000000000000000000000000000000							Did not reach Muddy Creek
1 1	▼ Water Table (24 Hour) ▼ Water Table (Time of Borin				GRAPHIC S CLAY	LOG LI			DATE DRILLED	00 Z of Z
	Water Iddie (Time of Borin PID Photoionization Detection (p NO. Identifies Sample by Numb YPE Sample Collection Method  SPLIT- BARREL  AUGER	pm)			SILT SAND		SA CL	ALY ANK (PEAT) NDY AY	L A	NUSION VNE D KRISH
	THIN- WALLED TUBE  DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	RECO	OVERY eet		GRAVEL SILTY CLAY CLAY SILT		] 		EXISTING GRA	OE ELEVATION (FT. AMSL)

	HY	RR-McGEE CORPO Drology Depar	RTMENT FUUSH
	MONITORIN		ATION DIAGRAM MOUNT
Protective Pipe			ent ? Yes No
Yes No	<b>↓ ₹</b>	Lock ? Yes [	] No []
Steel PVC	7-1-1-1	Weep Hale ?	
Surveying Pin !	Ft.	Concrete Pad	Ft. xFt. xInches
Yes No 🗆	100.00	DEPTH	DRILLING INFORMATION:
	夏	FROM	I. Borehole Diameter= 9 Inches.
Concrete	Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No
		0	Revert Bentonite Water
			Solid Auger  Hollow Stem Auger   3. Was Outer Steel Casing Used ? Yes  No
			- ,
Cement/Bentonite Graut Mix			Depth=taFeet.
Yes No 🗆			4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &	2 Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite			1. Type of Casing: PVC A Galvanized Teflon
Powder Other:			Stainless Other
			Couple Other
		2	3. Type of Well Screen: PVC 🔀 Galvanized 🗌
		<b></b>	Stainless Teflon Other
Bentonite Seal			4. Diameter of Casing and Well Screen:
Pellets Slurry	Ť 👹	₩ -	Casing Z Inches, Screen Z Inches.
	1-8	<b>3</b> — —	5. Slot Size of Screen: 0.040
Filter Pack	3 Ft.		6. Type of Screen Perforation: Factory Slotted 📈
Above Screen _	<del></del>		Hacksaw Drilled Other
		8	7. Installed Protector Pipe w/Lock: Yes No
	<b>T</b>	3: :}	WELL DEVELOPMENT INFORMATION:
		#U:}	I. How was Well Developed ? Bailing   Pumping   Air Surging (Air or Nitrogen)
FILTER PACK MATERIAL		1 1	
Silica Sand		<b>1</b> :.}	2. Time Spent on Well Development ?
		1.1	2 hr / 20 Minutes/1460cs
Washed Sand	40 11	<u>∃</u> .	3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌		4. 1	4. Water Clarity Before Development? Clear
Others		<b>3:</b> :1	Turbid 🗶 Opaque 🗌 5. Water Clarity After Development ? Clear 🗌
		<b>4</b> 21	Turbid Opaque
Sand Size 8-12			6. Did Water have Odor ? Yes No
	<u> </u>	48	If Yes, Describe
Dense Phase Sampling Cu	٠, ١, ١	[ · ]	7. Did Water have any Color? Yes No D
Bottom Plug	<del></del>	485	If Yes . Describe 1+ brn (sil+)
Yes No 🗌	1	<u> </u>	WATER LEVEL INFORMATION:
Overdrilled Material Backfill	,1	1	Water Level Summary (From Top of Casing)  During Drilling Ft. Date 8-17-00
Grout Sand	Ft.	1 10 -	
Caved Material		49.5	Before Development Ft. Date
Other:	_		After Development 0.81 Ft. Date 7-18-00
	-	_	
Driller/Firm HORMA	NN/ LAYNE	Drill Rig Type <u>A P</u>	
Drill Crew		Well No. PC 10	Kerr-McGee  L Hydrologist ED KRISH

		KM SUBSIDIA		LC		Hend	lers	n	٧V	BORING	PC 103
DEP			¥.,	UNIFIED	BLOWS		l .		IL SAMPL		
IN FEE	LITHOLOGIC DESCRIPTION	٧	GRAPHI 10G	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	-0-6 BERM. Com										
	- construction mate	rial	/								4
	-		/			<u> </u>					$\dashv$
Ι.											
6			[ ō:o					_			
	6-10 SAND, grave brn (5485/4), 10-20/5 vol6	114,	. ,	ح. ١		X					
	- grav to 1/4 " in vf-vc, A-	creal	.0.	รฟ							
10			0.00			<del> </del>			angene was adapte deserve		
	10-17' GRAVEL, Sd 51+y, brn, 10-20% sil+	Υ, 	0.000								_
	_ 20-30% vf-rc, SA-SR Sd	lin	0.00	GM							
1./	volc growel to 14. 51.	. دما-	وا و اه			_					dampe 14'
15	- careous. [Prob. series fining-up. alluvial beds	7	00000								·
17	711-17' ( 2011 1 1 1 1		0.00						· Prof. S. Schoolsen, Services, vol. Schoolsen, V. Schoolsen, V. Schoolsen, S. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schoolsen, V. Schools		A
1	17-29 Gravel SI	sdy	0.0.0								WTR @ 17' -
20	+r sil+. 10-15 % vf	-VC	0.00								_
	30111 - NI VOIC 5A-51	R pea	0000								_
	gravel to 1/2" w/ local beds up to 4"	1 thin	000	GP							_
	7 '		0.0								-
25	25-28' com 19 volc	gravel	00.0								
	to 4"		000	1							
	_ Z8-Z9' gravel w/	20-305	0000	•							
	Z8-Z9' gravel w/		10 1018	, X						-	
30		- 1	IVVII	26			1	H	telle after Kanadersker van van de skrive televiser bet		MC BZ91 -
	E CLAY, 1+ grngr	Y									
	(5648/1), 10-202; in matrix, non-c	+				_					_
	- in matrix, non-c	alcur-									-
	= eous, +r-sp gyps	ium									
	TD 30'					_					_
											-
<u> </u>							<u> </u>		ın In	TE DRILLED	PAGE
	▼ Water Table (24 Hour)					GRAPHIC			-	Z - 3 -	
	PID Photoionization Detection (pp	óm)			1	CLAY			1.	ILLING MET	
Z	NO. Identifies Sample by Number TYPE Sample Collection Method	r			Ш	SILT		HIGHLY ORGAN	VIC (PEAT)	ILLED BY	COTZION
ATIC	SPLIT-		OCK			SAND		SAN CLAY	DY Y	LAY	NE
EXPLANATION	BARREL		ORE			GRAVEL		CLAY SAN	YEY D	Ed	KRISH
EX	THIN- WALLED TUBE CONTINUOUS SAMPLER		IO ECOVE	RY	1	SILTY			1		DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered		n Feet		ET	CLAYEY SILT			LC	OCATION OR	GRID COORDINATES

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM \_\_\_--Casing Cap Vent ? Yes 🔀 No 🗌 Protective Pipe ----\_\_\_Lock? Yes No 🛛 Yes 🖄 No $\square$ Weep Hole ? Yes 🗌 🛮 No 🛭 Steel A PVC Surveying Pin ? --Concrete Pad Ft. x \_\_\_\_\_Ft. x \_\_\_\_Inches Yes 🗌 No 🔽 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 9 Inches. FROM **BELOW** TOP OF 2. Were Drilling Additives Used? Yes No X Concrete CASING GRADE Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes No 🛛 Depth= \_\_\_\_\_ to \_\_\_\_Feet. Cement/Bentonite Grout Mix Yes 🗍 No X 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to 94Lb. Bag Cement & WELL CONSTRUCTION INFORMATION: Ft. 1. Type of Casing: PVC 🖫 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Stainless Other Powder Other: 2. Type of Casing Joints: Screw-Couple & Glue-Couple Other \_\_ 3. Type of Well Screen: PVC V Galvanized [ Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches, Screen 2 Inches. Pellets Slurry 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted X 1.0 Ft. Above Screen Hacksaw Drilled Dother\_ 7. Installed Protector Pipe w/Lock: Yes 📝 No 🗌 9 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing | Pumping | Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand \_\_\_\_/\_\_\_\_ Minutes/Hours 20 Ft. Washed Sand 🕱 3. Approximate Water Volume Removed? \_\_\_\_\_ Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: 5. Water Clarity After Development? Clear Opaque [ Turbid [ Sand Size 3-12 6. Did Water have Oder? Yes No No If Yes, Describe Dense Phase Sampling Cup 6.5 Ft. 7. Did Water have any Color? Yes No No If Yes . Describe Bottom Plug Yes 🔼 No 🗌 Z9.5 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 17 Ft. Date 2-3-01 Backfill Grout Sand Before Development\_\_\_\_\_Ft. Date\_ 30 Caved Material 🔀 After Development \_\_\_\_\_ Ft. Date\_ Other: \_\_ Drill Rig Type AP-1000 Date Installed Z-3-01 Driller/Firm LAYNE Kerr-McGee Hydrologist Ed Krish Drill Crew Perry Well No. PC - 103

K	ERR-McGEE CORPORATION	KM SUBSIDI	ARY.			LOCATION				BORING	· ·	
	rdrology Dept S&EA Division	KM		L C		Hen	ders	on	, NV	NUMBE	R PC	104
DEPTH			APHIC LOG	UNIFIED SOIL	BLOWS PER	PID			LSAMP	LE	REMA	ARKS OR
IN FEET	LITHOLOGIC DESCRIPTION	)N	GRAI	FIELD CLASS.	6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OB	SERVATIONS
	0-6 Berm Mater	ial										
	sdy, gravelly Mi											
-												4
-			/	,								-
6-			/									
	6-21 SAND, gran	relly	0.00						-			
-	# silty . Brn (54R5/	4-).	101:									-
10	10-20 % silt in sa ma	trix of	0.1									
	f-egw/mmor reg. 51		0 . 0 .	- (								
	20-30% SA-SR, vole		0-0	2M								
	gravel to 3/4" w/1		1.0.0									
15 -	Thin zones to z". A	Jon-	0.0							,		
	calcareous.		0.0									
	6-12 com gravel to	<b>ヱ</b> "	0 . 1									<b>2</b> 0.000
			11.0									_
_			1.0	:		<u> </u>						***************************************
21	71 25 521 6	V	0:00	A Language Policies of the		The second section with the second		-	na ran kawarahin kanda Kr		2-	
	21-35 GRAVEL & GRAVEL, Interbedde	d. brn	0000									@ Z1' _
	_ (5 YR 5/4). Volc clas-	ls up t		?		_					Wet	@ ZZ!
25-	- I" except locally to - SA-SR, contains var	5",	0.0	GP/								-
	- SA-SR, contains var of vf-vc, SA-SR si	e. amts	0 0.0	. /								
	- sil+	a. ()		GM	V							
	- 23-26 com la grave	1404"	dala	i:								-
30 -	29-30 sity gravelly	y SAND	0.0	•								
	1 1-15 m), 50-30%	151)+	0.0									
				•		_						-
-	34-35' com la grave	el +05'	0.00	0		-						_
35 -	35-36' CLAY, 5	14,		CL	<del> </del>						mc	@ 35'
156	gry yell grn (5647	/2).										mo.
	10-20% silt in mati	riy, nor	7 -									-
	TD @36'	F 37535	7									-
T.	▼ Water Table (24 Hour)					GRAPHIC	rog re	EGEN	ND C	DATE DRILLED	1	AGE
.	✓ Water Table (Time of Boring)					CLAY		DEBI FILL	RIS C	Z-3-C		) of ]
	PID Photoionization Detection ( NO. Identifies Sample by Numb TYPE Sample Collection Method				1	SILT		HIGHLY	LUC IDC LT.	PER PORILLED BY	CUSSI	01
ATIC	M Sput		ROCK			SAND		SAN CLA		LAY	NE	
EXPLANATION	SPLIT- BARREL AUGER		CORE			GRAVEL		CLA	YEY T	E 4	Krish	
<del>ŭ</del>	THIN- WALLED TUBE  THIN- CONTINUOUS SAMPLER	ıs \	no recovi	ERY	1	SILTY		]		EXISTING GRA	ADE ELEVATION	N (FT AMSL)
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovere	Sample d Sample	in Feet	İ		CLAYEY SILT				LOCATION OF	RID COORD	INATES

	McGEE CORPO	
	LOGY DEPAR	P/ U3 H
		ATION DIAGRAM MOUNT
Protective Pipe	Casing Cap Ve	ent ? Yes 🛛 No 🗌
Yes No X	Lock ? Yes [	] No 🕅
Steel PVC	_Weep Hole? `	Yes No 🔯
Surveying Pin ? Ft.		Ft. xFt. xInches
Yes No X		DRILLING INFORMATION:
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	DEPTH	
	FROM BELOW TOP OF	1. Borehole Diameter= 9 Inches.
Concrete 6.5 Ft.	GRADE CASING	2. Were Drilling Additives Used? Yes No 😿  Revert 🗌 Bentonite 🗍 Water 🗍
		Solid Auger   Hollow Stem Auger
<b> </b>		3. Was Outer Steel Casing Used? Yes 🗌 No 🔀
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes Nox		4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement & Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite		1.Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌
Powder Other:		Stainless Other
	•	Couple Other
	6.5	3. Type of Well Screen: PVC 🔀 Galvanized 🗌
		Stainless Teflon Other
Bentonite Seal 3.5 Ft.		4. Diameter of Casing and Well Screen:
		Casing 2 Inches, Screen 2 Inches.
Pellets Slurry -	9	5. Slot Size of Screen: 0.020
Filter Pack 1.0 Ft.		6. Type of Screen Perforation: Factory Slotted 💢
Above Screen		Hacksaw Drilled Other
	10	7. Installed Protector Pipe w/Lock: Yes 🗌 No 😿
T		WELL DEVELOPMENT INFORMATION:
		1. How was Well Developed? Bailing Pumping
		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL  Silica Sand		2. Time Spent on Well Development ?
		/ Minutes/Hours
Washed Sand		3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌		4. Water Clarity Before Development? Clear 🗌 Turbid 📗 Opaque 🗌
Other:		5. Water Clarity After Development? Clear
7 12		Turbid Opaque
Sand Size 3-12	35	6. Did Water have Oder? Yes No 🗌
1-1-1-1	_ <del></del>	If Yes, Describe
Dense Phase Sampling Cup 0.3 Ft.	}	7. Did Water have any Color? Yes 📗 No 🗌
Bottom Plug Yes X No	35.3	If Yes , Describe
Overdrilled Material		WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill 0.7 Ft.	1	During Drilling $22$ Ft. Date $2-3-61$
Grout Sand	36	Before DevelopmentFt. Date
Caved Material		After Development Ft. Date
Other:		
Driller/Firm Lay NE	Drill Rig Type <u>Å₽-</u>	
	Well No. PC-1	04 Kerr-McGee Ed Krish

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C L					Henderson, NV N				/ BORIN	G ER PC 105		
DEPTH			APHIC LOG	UNIFIED SOIL		PID		SC	OIL SAMP	LE	REMARKS OR	
IN FEET	LITHOLOGIC DESCRIPTIO	LITHOLOGIC DESCRIPTION		FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
-	0-5 Disturbed f	i H	/								_	
-	material, local origin											
-	1		/									
5-	5-11 SAND, gran		0:00									
	brn (5485/4). vf-va		0.0									
	Zo-302 pea gravel.	*	0.00	SW							-	
_	s)-mod calcareous		0.0									
11	11' 77' CP 2151	<u> </u>	0.00		ļ	<del> </del>						
	11-37' GRAVEL, yellow brn (10485/2)		100								dampe 13'	
	20-40% vf-Vc, SA.		1:0.1								dampe 13'	
_	matrix to volc & mi		0.00								WTRE 16	
	peagravel 1/2"-1". A		0000			_					_	
	com thin growel to	els	06.00									
-	] up to 6".		000									
	Hard and cement	<b>u</b> l.	0000									
	- Com ealichifica	tion.	0.00	GW		-					_	
_	sp-mod silica ca	ement	000									
	-	1 (H	000								_	
	- 11-12 com la gravel		0000									
	12-15' 50% sd and	20%	0.00								_	
30-	silt in matrix		9,00	<u> </u>								
	-		0000			_					_	
			0.00	3								
35-	_		000	2		-						
37			9.00	0				-				
'	37-42' SAND, SILL Yell brn (10486/2). Yf- SR W/20-307, SILL. Calc	y, pale		SM		_					_	
	SR w/20-307, Silt. Calc	areou	<u> </u>	1:					<u></u>			
1 1	▼ Water Table (24 Hour)					GRAPHIC			INU	2/4	PAGE of Z	
11	<ul> <li>✓ Water Table (Time of Boring PID Photoionization Detection (public Picture)</li> </ul>	pm)				CLAY			- 1	DRILLING ME		
1 1 .	NO. Identifies Sample by Number TYPE Sample Collection Method	er			ΙШ	SILT			1	DRILLED BY	Cussion	
ATIC	SPLIT-		ROCK			SAND		SA CL	NDY AY	LOGGED BY	AYNE	
EXPLANATION	D BARKEL		CORE			GRAVEL	7.7	CL SA	AYEY ND	Ed	Krish	
<b> </b> 🍎	THIN- WALLED TUBE  CONTINUOUS SAMPLER		NO RECOVE	ERY	<b>E</b>	SILTY				EXISTING GR	ADE ELEVATION (FT, AMSL)	
	DEPTH Depth Top and Bottom of S				M.	CLAYEY				LOCATION O	R GRID COORDINATES	
	REC. Actual Length of Recovered		in Feet									

KERR-McGEE CORPORATION Hydrology Dept S&EA Division				して		LOCATION Henderson NV			BORING NUMBE	BORING PC 105		
DEPT				UNIFIED	BLOWS			SOIL SAM				
IN FEET	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.			REMARKS OR FIELD OBSERVATIONS		
1.5	- ,			5M						_		
42	42-46 SILT, brn (5)	(R 5/4)		1) 4 .						MC ?		
	matry, non-calcare			ML						$\exists$		
46	46-50 GRAVEL, pale brn (10/86/2). 10% vi	- yell	0000							_		
50-	SA sd in volc Peagra	vel to	0000									
50-	50-63 SILT W/mir Say SILT, interbel	noc								mc @ 50'		
	- gry oran (10 x R 7/4) a	nd dk										
55.	-gry oran (104R6/4). Yta A-SA sa in silt	locally.								] -		
	- Mod scattered blkos and sp-mod sypsu	m.		ML						_		
	= 51-mod cal careou = 050'v. thin belof 1+.	1										
60-	gry sity clay	•								_		
63		mnor		CL						_		
64	51+y clay, 1+ grn (5Gy 8/1). Non-c	gry	777					:				
	- eous, mod-com o	rganics								_		
	- (grass blades). Tr.									_		
										_		
	TD 641											
	▼ Water Table (24 Hour)					GRAPHIC			DATE DRILLED	1		
	V Water Table (Time of Borin Photoionization Detection (p. NO. Identifies Sample by Number	opm)			į.	CLAY		DEBRIS FILL HIGHLY DRGANIC (PEAT)	DRILLING MET			
ATION	TYPE Sample Collection Method  SPUT-	∏ R	ОСК			SAND		SANDY CLAY	DRILLED BY	YNE		
EXPLANATION	BARREL AUGER	C	ORE		1	GRAVEL		CLAYEY SAND	E d			
"	WALLED TUBE CONTINUOU SAMPLER	R	IO ECOVE	RY	1	SILTY CLAY CLAYEY				ADE ELEVATION (FT. AMSL)		
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		n Feet			CLAYEY SILT	. LJ		LOCATION OF	CORDINATES		

### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM ----Casing Cap Vent ? Yes 反 No 🗌 Protective Pipe ------- Lock ? Yes \ No \ Yes X No 🗌 .Weep Hole ? Yes 🗌 🛮 No 🗘 Steel D PVC Surveying Pin? -Concrete Pad Ft. x \_\_\_\_\_Ft. x \_\_\_\_Inches Yes $\square$ No 🔯 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 9 Inches. FROM **BELOW** TOP OF 2. Were Drilling Additives Used? Yes No Concrete GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | NolX 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix Yes 🗍 No X 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple & Glue-Couple Other \_\_\_ 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Casing 2 Inches, Screen 2 Inches. Pellets X Slurry 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted 🛛 Filter Pack Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes X No ... 10 WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand \_\_\_/\_\_\_\_ Minutes/Hours Ft. 3. Approximate Water Volume Removed ? \_\_\_\_\_ Gallons Washed Sand 🔽 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: 5. Water Clarity After Development? Clear [ Opaque [ Turbid | Sand Size 3-12 6. Did Water have Odcr? Yes No No 50 If Yes, Describe \_\_\_ 7. Did Water have any Color? Yes No No Dense Phase Sampling Cup 0.3 Ft. If Yes . Describe Bottom Plug 50.3 No 🗆 Yes 🗍 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material Backfill Ft. During Drilling 13 Ft. Date 2-4-01 Grout Sand Before Development\_\_\_\_\_ Ft. Date \_\_\_\_\_ Caved Material After Development \_\_\_\_\_ Ft. Date \_\_\_ Other: bentonite Date Installed Z-4-01 Drill Rig Type AP 1000 Driller/Firm Kerr-McGee Hydrologist Ed Krish Well No. PC 105 Drill Crew Perry

KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM SUBSIDIARY				,	Henderson NV				BORIN NUMB	BORING PC 106	
DEPTH	ЕРТН		문의 ROIL BO		PID	SOIL SAMP			LE	REMARKS OR	
IN FEET	LITHOLOGIC DESCRIPTION	GRAPH LOG	FIELD CLASS.	P⊞ 6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
_	0-7 GRAVEL, Sdy, brn	0000								DAMPel' -	
-	gry (5 YR 4/1). 30-40% Vf-	0000								WTR @ 4'	
-	rc, SA-SR Sd in volupea	00.00	GP							perched WTR	
<	gravel to 3/4".	0000								perories with	
_	gry (5YR4/1). 30-40% rf- rc, SA-SR sd in volc pea gravel to 3/4". 6-7' com Igvolcgravel to 4"	000								_	
7 -	N	.00.00									
8 7	7-8' CLAY, SIty, mottle	347	CL			ļ	$\vdash$			damp @7'	
0	V. Pale oran (10 YR 8/2) &	هٔ اِنْ								WTR @8 -	
_	brn (5485/4)	0.00								_	
_	0-25 SANV, gravelly	0.0								_	
-	E SITY. UK gry oran 1109K	0.1	,		-					-	
- سي	6/4). 20-30% 51/11	1:1:0	GM							-	
,s — _	B-25' SAND, gravelly Esty. dk gry oran (10)R 6/4). Zo-30% siltin matrix. Sd isvf-vc, SA- SR. ZO-30% pen gravel	00									
	SR. 20-30% pen gravel	0.00								-	
_	to 1/2-3/4", volc, com.	00	•							-	
- 7.3	calcareous	0.0								-	
?o_		00								_	
_		0 0									
_		0.0									
		000									
22	25-28 SAND, SI. SHY, Pa	10	-			1	$\vdash$				
-	Well brn. Vf- eg. SA-SR. Com Calc. locally hard, comer	1	: SW								
Z8 -	com Calc. locally hard, cemen						-				
-	Z8-33 SAND, Sity, pale	制制			<u> </u>					damp @ 28'	
	yell brn (10 yr 6/z), 30-40%		SM		<u></u>					_	
_	511+, sl. calcareous; vfg,	133				Ì					
- 33 -	SA-SR Sd			ļ			_				
-	33-40 CLAY and minor	-///								MC@33'	
35 —	sity clay, Modyell.brn (10xR 5/4) to 35'then yell	11	)							_	
-	(10/ R 5/4) to 35 then yell		NCL								
-	gry (5 y 7/z) to 40'. 51. calc	-///									
-	areous. Tr gypsum, Tr									TOB AD'	
	organics	ViZi	<u>\</u>	1 1	GRAPHIC	log I	EGE	ND I	DATE DRILLEI	PAGE	
7	<b>7</b>							) - L		-01 1 of 1	
	ID Photoionization Detection (ppm)				CLAY		FILL	1	DRILLING MET		
1	O. Identifies Sample by Number  'PE Sample Collection Method				SILT	$\stackrel{\frown}{\sim}$	HIGH	AUC IDEAT	ORILLED BY	ERUCUSSIAN	
5 6	71 - Central Central Central Central Central Central Central Central Central Central Central Central Central Ce				SAND		SAN	1	5.	BYNE	
EXPLANATION		ROCK CORE		1			SANDY CLAY CLAYEY SAND		OGGED BY	.,.,,	
X  =				:::	GRAVEL	83	SAI	1	と	& Krish	
wi		no Recove	RY	1	SILTY		]		EXISTING GR	ADE ELEVATION (FT. AMSL)	
_	1082			1	CLAYEY		1		LOCATION O	R GRID COORDINATES	
	EPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample	in Feet		1077	SILT		J				

	McGEE CORPO	
	OLOGY DEPAR	ATION DIAGRAM FLUSH
Protective Pipe		elic 1 co Ki 110 Cl
	Lock ? Yes [	J NO KJ
Steel PVC Ft.		1
Surveying Pin !	Concrete Pad	Ft. xFt. xInches
Yes No No	DEPTH	DRILLING INFORMATION:
	FROM BELOW TOP OF	1. Borehole Diameter= Inches.
Concrete 2 Ft.	GRADE CASING	2. Were Drilling Additives Used? Yes No
		Revert  Bentonite  Water  Solid Auger  Hollow Stem Auger
		3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes No X		4. Borehole Diameter for Outer CasingInches.
94Lb. Bag Cement &Ft.		WELL CONSTRUCTION INFORMATION:  1.Type of Casing: PVC ☑ Galvanized ☐ Teflon ☐
3-5 Lb. Bentonite Powder		Stainless Other
Other:		2. Type of Casing Joints: Screw-Couple Glue-
		Couple
	2	3. Type of Well Screen: PVC 📈 Galvanized 🗌
		Stainless Teflon Other
Bentonite Seal 2 Ft.		4. Diameter of Casing and Well Screen:
Pellets ☑ Slurry □	4	Casing 2 Inches, Screen 2 Inches.
		5. Slot Size of Screen: 0.020
Filter Pack Above Screen Ft.		6. Type of Screen Perforation: Factory Slotted 🔀
Above Octron		Hacksaw Drilled Other
1		WELL DEVELOPMENT INFORMATION:
		I. How was Well Developed ? Bailing ☐ Pumping ☑
		Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		2. Time Spent on Well Development ?
Silica Sand		/Minutes/Hours
Washed Sand Sand Sand Sand Sand Sand Sand San		3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌		4. Water Clarity Before Development? Clear   Turbid  Opaque
Other: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5. Water Clarity After Development? Clear
Sand Size 3-1Z		Turbid Opaque
Sand Size 2 15	35	6. Did Water have Oder? Yes No
	\	If Yes, Describe
Dense Phase Sampling Cup 6.3 Ft.	1	7. Did Water have any Color? Yes \( \) No \( \)  If Yes, Describe
Bottom Plug Yes No No	35.3	
Overdrilled Material	) ————————————————————————————————————	— WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill 4.7 Ft.	(	During Drilling $\frac{4}{2-4-0}$
Grout Sand	4-0	Before DevelopmentFt. Date
Caved Material	)1 U	After Development Ft. Date
Other: <u>bentonite</u>		
Driller/Firm LAYNE	Drill Rig Type 🗚 P	
Drill Crew Perry Horman	Well No. PC-	106 Kerr-McGee Ed Kr15h

	KERR-McGEE CORPORATION KM SUBSIDIARY LOCATION / BORING									
		MCLI						\ <u>\</u> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
DÉP IN	THE TITHOLOGIC PECCHIPTION	E S	UNIFIED SOIL	BLOWS PER	PID			DIL SAM	PLE	REMARKS OR
FEE		GRAPHIC	FIELD CLASS.		(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
	0-4 BERM-distort	sed /								
	4									_
					<u> </u>			-		-
4	4'8' SAND, 514, 6	rn ilo								
	- calcareous. vf.vc. SA-	SR 00	SM					<i>;</i>		. 4
	- W/minor granules + pea gra to 1". 7-8' com la volc	~~(   000 -								$\exists$
3	gravel zone to 4"	कि है।		-	<u> </u>					
	8-12 GRAVEL, Say, gry.	rangos	GW							• .
	(10 YR 7/4), HARD, abu eo coment. Granule-pea grav	10 7								
	12-16 SAND, SIty.	brn 🕂					-			DAMP @ 12.
	(54R5/4) Calcareous . vf	-m, -	5M.		-					WTR @ 14'
16	_ cemented to 14', vf-vc, calc cement to 16'	51.			_					_
100	16-20 CLAY, 1+am	7								and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
	- gry (5-GY 8/1) Non-col	1c -	CL							_
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	]		1.							
$\vdash$				1 . 6	GRAPHIC	106 15	GE	ND I	DATE DRILLED	PAGE
	<ul><li>✓ Water Table (24 Hour)</li><li>✓ Woter Table (Time of Boring)</li></ul>						-		Z-5- DRILLING MET	01 ) of 1
	PID Photoionization Detection (ppm) NO. Identifies Sample by Number				CLAY			1		
No.	TYPE Sample Collection Method				SILT				DRILLED BY	C 0 2 2 1 0 M
TAT	SPLIT. ALICER	ROCK			SAND		SAI	7A ADA		, VE
EXPLANATION	BARREL		LOGGED BY			KRISH				
	THIN- WALLED THIRE CONTINUOUS SAMPLER	NO RECOVE	RY	- [			•			DE ELEVATION (FT. AMSL)
	1002	<u></u> Y	., ι	1	SILTY CLAYEY  CLAYEY  CLOCATION OR GRID COORDINATES			GRID COORDINATES		
DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet					CLAYEY SILT			<del> </del>		

		R-McGEE			
		ROLOGY Well I		ATION DIAGRAM	FLU3H.
Protective Pipe				nt? Yes □ No [汉]	mount
Yes No No			ock ? Yes [		
Steel PVC	1			res No 💢	
Surveying Pin ?	Ft.			Ft. x[	Et v Inches
Yes No 💢		$\leq$	oncrete i au	DRILLING INFO	i
	T DOOR TO	DEP	TH	1. Borehole Diameter= 9	1
Concrete	3_Ft.	BELOW GRADE	FROM TOP OF CASING	2. Were Drilling Additives Use Revert Bentonite	d? Yes□ No 🂢
-				Solid Auger 🗌 Hollow	
	1 1			3. Was Outer Steel Casing Us	· 1
Cement/Bentonite Grout Mix				Depth=to	Feet.
Yes No 💢				4. Borehole Diameter for Out	er CasingInches.
5.5 Gallons Water to				WELL CONSTRUCTIO	N INFORMATION:
94Lb. Bag Cement & 3-5 Lb. Bentonite	<u> </u>	}		1.Type of Casing: PVC	1
Powder		1		Stainless Other	
Other:				2. Type of Casing Joints: Sc	rew-Couple 🔀 Glue-
				Couple Other	
-	<del> </del>	<u>}_3</u> _		3. Type of Well Screen: PVC	
Bentonite Seal	1_ 👹 🕻	\		Stainless Teflon	
3	<u>. 5 </u> Ft∙ ₩	് .		4. Diameter of Casing and W	_
Pellets Slurry -	╀──₩	6.5		Casing 2 Inche  5. Slot Size of Screen:	es, Screen 2 Inches.
Filter Pack	. Z Ft.			6. Type of Screen Perforation	on: Factory Slotted 🕍 🦳
Above Screen			•	Hacksaw 🗌 Drilled 🗌 (	Other
		7.7		7. Installed Protector Pipe w/	Lock: Yes 🗌 No 📈
				WELL DEVELOPME	NT INFORMATION:
				1. How was Well Developed?	
CH TED DAOK MATERIAL		::{		Air Surging (Air or Nitrog	en) Other
FILTER PACK MATERIAL	(: [됨.	::}		2. Time Spent on Well Develo	pment ?
Silica Sand		·:}		/	Minutes/Hours
Washed Sand 🗡 🔃	10 Ft =			3. Approximate Water Volume	
Pea Gravel 🗌				4. Water Clarity Before Dev Turbid D Opaque	elopment ? Clear 🗌
Other:				5. Water Clarity After Deve	elopment? Clear
		$\{\cdot\}$		Turbid Opaque	
Sand Size _ 3 - 17	<b>↓</b>	17.7		6. Did Water have Oder?  If Yes, Describe	
Dense Phase Sampling Cup	1 5	· · · }		7. Did Water have any Color	? Yes No
Bottom Plug	0.3 Ft.			If Yes . Describe	
Yes 🔯 No 🗌		<u>:::  18</u>		- WATER LEVEL	INFORMATION:
Overdrilled Material Backfill	Z Ft.	1		Water Level Summary ( During Drilling 14	
Grout Sand		, ZO		Before Development	
Caved Material 🕱				After Development	
Other:				THE COLORD WINDING	
Driller/Firm LAYNE	Ξ	Drill Rig T	ype A P		2-5-01
Drill Crew PERRY +	tormanl	Well No.	PCI	Kerr−McGee ⊃7 Hydrologist E	Ed Krish

	KE Hy	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSID		1 1		LOCATION	- 50	<u></u>	W, Li	BORIN NUMB	G P(	2 108
6	EPTH	Sy	1 7-11-1	U	UNIFIED	BLOWS		1			<u> </u>	-	, 100
١	IN	LITHOLOGIC DESCRIPTIO	)N	GRAPHI	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	7SC	DEPTH	REC.		MARKS OR BSERVATIONS
	_	0-8 SAND, gran	بوااح	1:0:0						· · · · · · · · · · · · · · · · · · ·			
	-	and silty. dk yell	brn	, 9a									-
	_	(104R4/z) f-vc.5		17.01	SW/		_						-
3	<u> </u>	W/20-30% sil+ \$11	0-20Z	0,0	5M								_
	_	pergravel to 1",	sle.	0.0									
١,	8 -	7-8 com la grave	123"	0 .0									-
	0	8-19 GRAVEL,		10,01								Nam	P @ 8'
	-	& sity. Granule-	to '	1900									69' -
and Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence of the Commence o		Pen gravel to 1/2", SA-SR W/30-40%	volc	000	GW/								-
	_	SA-SR W/30-40%	f-vc	0.00	C 54								_
	/	SA-IRSH and ZOX	5,1+.	000	GM								-
′	٦,	calcareous.		0,900									
	-			1000									_
	7			9000									_
<b>'</b>	9_	19-28 SAND, SH		1.1.		~~~			$\dashv$		* National groups group of a constant of a constant		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	4	mod yell brn (10 VR 5		4)!!									
	-	vf-fg, sA, w/ 20-30			5M								-
	]	calcareous. Conta			,	ļ							
Z	5-	minor thin interbe	ds of	11:		-							
		sdy SILT		1:1									_
z		@ 28 well comented,		1-11-									
2	9 1	<u>z8-z9</u> CLAY, 1+gm (5GY 8/1)	797	///\ -11111	CL					- Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont		1.	e constant to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to th
		29-33 SANT and SO	[1]		5W/	l	_						
	4	SILT. Partly exiduely	1-4011	iii	SM	-		į					
3	3-	gry (5 /7/2) +dkyello	range	1111	***************************************		Tarana a sang bangangan a nangal						
39	<del>,</del> ]	(104R6/6). Vf-fg, SA	<b>←</b>										_
٠.		33-45 SAND, SIty	of minor			-	_						_
	1	interbeds of say SILT.	brn.	115	SM								_
	4	33-45 SAND, SIty unterbeds of sdy SILT. Calcareous. (20%-30% In vfg, A-SA sd and 20-	5,14										_
=			30%	f.1.1.7									
	모	Water Table (24 Hour)			Ì		APHIC LC				DRILLED	O I	of Z
	PID NO.	Water Table (Time of Boring) Photoionization Detection (ppr	n)			C C		D FI		DRILLI	NG METHO	OD	
NO	TYPE					IIII sı	ŧΤ		GHLY RGANIC	(PEAT) DRILLE	RC O BY	22210	$\cap$
EXPLANATION		SPLIT- BARREL AUGER	ROC			S/	AND	S c	LAY		AY N		
XPLA			co	KE	1	G	RAVEL	C S	LAYE AND			Krish	
ω̈́		THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO REC	OVERY	į	SI CI	LTY LAY					ELEVATION	FT AMSL)
	DEP REG	TH Depth Top and Bottom of San C. Actual Length of Recovered So	nple omple in f	eet		SI SI	LAYEY LT			LOCAT	TION OR GI	RID COORDINA	• NTES

Г	KE	RR-McGEE CORPORATION	KM SUBSID				LOCATION	_			BORIN	G		
F		drology Dept S&EA Division	Km				HEN	DERS	io N	NV	NUMB	ER P	ر ع	υg
1	EPTH IN EET	LITHOLOGIC DESCRIPTION	DN ,	GRAPHIC LOG	UNIFIED SOIL FIELD	PER	PID (ppm)	ļ		SAMPLE	Γ			KS OR
F				<del> </del>	CLASS.	6"	(ppiii)	NO.	TYPE	EPTH	REC.	FIELD	ORZE	RVATIONS
	7	vfg, A-sR sd in silt					_							
	4			4.56	SM									
<b>L</b> .	_			11.4										
4	, ]	45-50 SILT, CIY	1 mod	KINK	<del> </del>					and the second				
	4	oran pink (IOR 7/4) 30-40% clayin mo	) . ا	1111								MC	(iii	245
	+	30-40% clayin m.	ctick	1111	ML									
5	0 🗐			MN										٠.
	+	50-55 CLAY, 514, grn gry (5GY 8/1).	y, 1+	M									and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	
Ì		grn gry (56y 8/1).	SP	M	CL	-								
	4	blk organics, trgu	zpsum	1										
55	<del>-</del>	T + 0 -		7.11					_					
		T D @ 55												-
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П	Y	W					4 00 11 6 1 6			Tours	DRILLED			_
	又	Water Table (24 Hour) Water Table (Time of Boring)			f		APHIC LC				5-0	1	AGE Z	of $Z$
	PID NO.	Photoionization Detection (ppr Identifies Sample by Number	n)		1	Cr		DE FIL		1	NG METHO			
NO.	TYPE	Sample Collection Method				SIL	LT	HIGH ORG	HLY ANIC (PEAT	DRILLE	YER (	CU35	101	
EXPLANATION		SPLIT- BARREL AUGER	RO	CK		SA	MD	SA CL	NDY AY	1	-AYN	1E		
XPLA			co	KE		GF	RAVEL	CL SA	AYEY ND	LOGGE		Krisl	h	
	<b>1</b>	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO REC	OVERY		SIL CL	.TY AY			L		ELEVATION		MSL)
	DEPT	H Depth Top and Bottom of San	L_Y nole			SIL SIL				LOCAT	ION OR GF	RID COORDI	NATES	•
	REC	. Actual Length of Recovered Sc	<sup>=</sup> eet		ULM SIC									

KERR-MCGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM  Protective Pips  Ves					
HYDROLOGY DEPARTMENT		KERR	-McGEE	CORPO	DRATION
Protective Pipe	•				
Yes   No     No	i:	MONITORING	WELL I	NSTALL	ATION DIAGRAM PLUJH
Yes   No     No	Protective Pine		0	! O V	ALL S VALUE ALL IN
Steel   PVC   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Ft.   Surveying Pile ?   Survey   Surveying Pile ?   Survey   Surveying Pile ?   Survey   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Surveying Pile ?   Su					
Surveying Pin ?	_ *		= -		
Concrete   Pad	<del>-</del>		W	eep Hole?	Yes   No 🔼
DEPTH		Ft.	0	oncrete Pad	Ft. x Ft. x Inches
DEPTH   DEPTH   Depth	Yes No 🔼	1	P :: W		
SELOW TOP OF GASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING		12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DEF		
Cement/Bentonite Grout Mix	Concrete				<del></del>
Solid Auger   Hollow Stem Auger   3. Was Outer Steel Casing Used? Yes   No   No   Depth   to   Feet.   No   Solid Auger   No   No   Solid Auger   No   No   Solid Auger   No   No   Solid Auger   No   No   Solid Auger   No   No   No   Solid Auger   No   No   No   Solid Auger   No   No   No   Solid Auger   No   No   No   No   No   No   No   N	-		GRADE	CASING	
Cement/Bentonite Grout Mix   Yes   No			}		
Depth					
Yes	Cement/Bentonite Grout Mix				•
St. Sallons Water to   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb. Bag Cement &   S4Lb.					
Same State   Casing: PVC   Galvanized   Teflon   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Other   Stainless   Teflon   Other   Other   Stainless   Teflon   Other   Other   Stainless   Teflon   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other	5.5 Gallons Water to		{		
Stainless   Other	94Lb. Bag Cement &	Pt.			
Stainless   Other   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Couple   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue   Clue			}		
Bentonite Seal   3-5 Ft.   Silvery   Stainless   Teflon   Other					
Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Seal  Bentonite Stains Streen:  Casing Disting Componite Seal Inches.  Stainles Teffon Other  Casing Inches.  Stainles Teffon Other  Casing Inches.  Stainles Teffon Other  Casing Inches.  Stainles Teffon Other  Casing Inches.  Stainles Teffon Other  Casing Inches.  Stainles Tetloat Seal  Alia Distinct Screen  Bentonite Seal  Bentonite Screen  Casing Inches.  Stainles Tetloat Seal  Alia Distinct Screen  Bentonite Screen  Casing Inches.  Stainles Tetloat Seal  Alia Distinct Screen  Bentonite Screen  Casing Inches.  Stainles Tetloat Seal  Alia Surging Calr or Nitrogen Other  Casing Inches.  Stainles Tetloat Seal  Benton Screen  Benton Screen  Casing Inches.  Stainles Tetloat Seal  Benton Screen  Casing Inches.  Stainles Tetloat Seal  Benton Screen  Casing Inches.  Stainles Tetloat Seal  Benton Screen  Casing Inches.  Stainles Tetloat Seal  Benton Screen  Casing Inches.  Stainles Tetloat Seal  Benton Screen  Benton Screen  Casing Inches.  Stainles Casing Inches.  Stainles Tetloat Seal					
Stainless   Teflon   Other					
Bentonite Seal  Pellets Surry		<del>1</del>	} <del></del>		
Pellets   Slurry	Bentonite Seal				
Filter Pack Above Screen    1.2   Ft.		<u>3-5</u> Ft⋅₩ ₩			
Filter Pack Above Screen    Above Screen	Pellets X Slurry	₩ ₩	8.5		
Above Screen    1.2   Ft.   Hacksaw   Drilled   Other   The Normal Source   No   Mell Development   Normal Source   No   Mell Developed   Bailing   Pumping   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source   Normal Source	Filter Pack		}		A
Hacksaw   Drilled   Other		1.2 Ft.			
WELL DEVELOPMENT INFORMATION:   I. How was Well Developed? Bailing   Pumping   Air Surging (Air or Nitrogen)   Other					
I. How was Well Developed? Bailing   Pumping   Air Surging (Air or Nitrogen)   Other   Air Surging (Air or Nitrogen)   Other   Other:   Sand Size   3-12			9.7		7. Installed Protector Pipe w/Lock: Yes   No
Air Surging (Air or Nitrogen)   Other    Silica Sand		<b>→</b>			
FILTER PACK MATERIAL  Silica Sand			}		
Washed Sand  35 Ft.	FILTER PACK MATERIAL		}		Air Surging (Air or Nitrogen) U Other
Washed Sand	Silica Sand 🗍		}		·
Pea Gravel		36 Ft. 1 1 1 1	}		
Other:  Sand Size 3-12  Dense Phase Sampling Cup 0.3 Ft.  Dense Phase Sampling Cup 0.3 Ft.  Overdrilled Material Backfill  Grout Sand Caved Material Other: bendon te	~ -	<del>~</del> 1. 目:			
Sand Size 3-12  Sand Size 3-12  Dense Phase Sampling Cup 0.3 Ft.  Dense Phase Sampling Cup 0.3 Ft.  Bottom Plug Yes No  Overdrilled Material Backfill Grout Sand During Drilling 9  Caved Material Dother: bendonite  Drill Rig Type AP 1000 Date Installed Z-5-01  Kenn-McGee			}		
Turbid Opaque 6. Did Water have Odcr? Yes No 11 Yes, Describe 7. Did Water have any Color? Yes No 11 Yes, Describe 7. Did Water have any Color? Yes No 11 Yes, Describe 15 Yes No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16 No 16	Other:		1		· •
Dense Phase Sampling Cup	Sand Size 3-12		}		Turbid Opaque
Dense Phase Sampling Cup  O. 3 Ft.  Bottom Plug  Yes No  Overdrilled Material  Backfill  Grout Sand Sand Backfill  Caved Material Before Development  Other: bendon te  Driller/Firm  Driller/Firm  Driller/Firm  Driller/Firm  Dense Phase Sampling Cup  7. Did Water have any Color? Yes No  WATER LEVEL INFORMATION:  Water Level Summary (From Top of Casing)  During Drilling  Pt. Date  After Development  Ft. Date  Drill Rig Type  AP 1000  Date Installed  Z-5-01  Kern-McGaa		↓	44.7		
Yes No No No No No No No No No No No No No		-   -   -	\		
Yes No No No No No No No No No No No No No	Dense Phase Sampling Cup	0.3 Ft.	}		7. Did Water have any Color? Yes No
Overdrilled Material  Backfill  Overdrilled Material  Backfill  Ouring Drilling  Ouring Drilling  Other: bendon te  Driller/Firm  LAYNE  Drill Rig Type  MATER LEVEL INFORMATION:  Water Level Summary (From Top of Casing)  During Drilling  Ouring Drilling  Pt. Date  After Development  Ft. Date  Drill Rig Type  AP 1000  Date Installed  Z-5-01  Kern-McGee	Bottom Plug		1		If Yes , Describe
Backfill  Grout Sand During Drilling 9  Ft. Date Z-5-01  Caved Material Ft. Date  Other: bentonite  Driller/Firm LAYNE  Drill Rig Type AP 1000  Date Installed Z-5-01  Kern-McGee	165 X		1-4-2		· · · · · · · · · · · · · · · · · · ·
Caved Material Dother:		T Ft-	1		
Other: bentonite  Other: Lay NE  Drill Rig Type AP 1000 Date Installed Z-5-01  Kern-McGee	Grout Sand		 		
Driller/Firm LAYNE Drill Rig Type AP 1000 Date Installed Z-5-01	Caved Material 🗌	i	155		
Kern-McGee	Other: bentonite				After Development Ft. Date
Kern-McGee	Driller/Firm LAYNE		Drill Rig Ty <sub>l</sub>	pe API	000 Date Installed Z-5-01
	Drill Crew PERRY	HORMAN	Well No.	PCI	Kern-McGee

1	KE	RR-McGEE CORPORATION	KM SUBSID				LOCATION				BORI	NG
L	Ну	drology Dept S&EA Division	Kmc	LL(	<u> </u>		Heno	ler	on	NU	NUM	BER PC 109
D	EPTH			일	UNIFIED	BLOWS				DIL SAN	ADIC	T
	IN EET	LITHOLOGIC DESCRIPTIO	N ,	GRAPHIC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE I	DEPT		REMARKS OR FIELD OBSERVATIONS
	_	0-6 SAND, 51. 51+1	, w/	: 0: 1:	-					··		
	_	minor granules to 1/2		0.00	١.							
		yell brn (104R4/2). 10-		0.0	SW							
		Silt in matrix, 10-Z	0 % valc	1.10.			·					_
١.		granules (SR-SA), Sandi										
14	_	SA-SR. Mod calcareou		0.10.								
	_	6-21' Gravel, sd	-	0000								dampes'
İ	-	Dk yell brn. 10-20;	1/0511+	1000								
)	<i>&gt;</i>	in montrix. Contain										WTR @ 10' _
and the same	-	30% vf-vc, SA-SR			- /							_
Ì	-	SI. med calcareous		0000	GW							_
				0000								_
13		Gravel is granule.	peu	0000								-
		gravel size to 3/4"	inc	88.9								_
	4	513 Edownward), vole	٠,	080							İ	_
	$\dashv$	15-20 com la vole gr	m 121	0.000		-						
	$\dashv$	+ 4"	wec				-					_
	. $\dashv$	20-21 inc in 511+ to	75 (1.4)	000		1						_
2	1 -											
		21-29 SAND, SIL	y, mod			Ī						-
		yell grn (5646/2). 30	-40%		SM/							_
ZS		silt in vf-fg, SA, sa	nd.	0,00	//		-					_
	4	Mod-calc. w/mino caliche nodules.	~ <del>4</del> "		5W	-						
		Contains minor thin cal		9.0		4		]				
	$\dashv$	vesd-granule beds.		크빌								_
2		Locally sd is oxidized +	odk 1	31313						···········		
		yell orange (10 y R 6/6)	·			f						damponly -
		29-35 SAND, SHY			5M	Ī			1			
	4	minor SILT, say & siki interbedded, Brn (5YR	T,	14.14				İ	l			
		Interbedded, Brn (54K	5/4).						1			
32		Com V. Sm. gyp. Mod V. hnbde(?). Sl. Calcareou	sm.	11:11:					_			
١,,	11	Tr-sp. blk organics	~ · /	N/N	CL	}	-					MC@35'
3		Sd is vfg, SA w/30-40.	Lo silt						$\dashv$			One thin bed of
		35-37 CLAY & SILT, C	14, 1+		ML	Ī	_					hubde-rich Vfg sd
		grngry (5648/1). Spgyp.	sum?									Tuff?
		Water Table (24 Hour)				GR	APHIC LC	G LEC	SEN	D D	ATE DRILLED	PAGE
	<u>Z</u>	Water Table (Time of Boring)				C	1.4.	D FI	EBRI	s L	Z - 6 -	
	PID NO.		m)									·
N O	TYPE	Sample Collection Method				IIII si	ILT	OF OF	RGANK	CIPEAT; D	RILLED BY	C02210V
EXPLANATION	$\bigvee$	SPLIT-	RO		İ	S.	AND	S c	AND LAY			NE
PLA			co			G	RAVEL	C S	LAYE	EY L	OGGED BY	KRISH
û		THIN- WALLED TUBE CONTINUOUS SAMPLER	NC REC	OVERY	,	SI C			_	L		DE ELEVATION (FT. AMSL)
		TH Depth Top and Bottom of San				C Si					OCATION OS	GRID COORDINATES
	RE	C. Actual Length of Recovered S	ample in	Feet		ULL'SI	ILT	<u> </u>		—   <sup>[</sup>	CATION OR	GRIU COUKUINATES

	KERR-McGEE CORPORATION	KM SUBSIDI		. , , ,		LOCATION	1			BORING	IG C - 100
<u> </u>	Hydrology Dept S&EA Division	1 </th <th></th> <th>LLC</th> <th></th> <th>Heno</th> <th>devs 5</th> <th>3n , h</th> <th>) <b>/</b></th> <th>NUMBI</th> <th>ER PC 109</th>		LLC		Heno	devs 5	3n , h	) <b>/</b>	NUMBI	ER PC 109
DEP	N LITHOLOGIC DESCRIPTION	NC	GRAPHIC	UNIFIED SOIL FIELD	BLOWS	PID	ļ		AMPLE	<u>:</u>	REMARKS OR
FE	ET		8 1	CLASS.	6.	(ppm)	NO.	TYPE	ЕРТН	REC.	FIELD OBSERVATIONS
	-37-45 SILT, Sdy										
	- minor SILT. Brn. 20			1 , ,	1 }						
	- rigiA-SA sd in silt. S - calcareous. Com gyp.	)		ML							-
45	Yuggy . Sp-mod org	aanics	ЩП								-
<b>'</b>	(root casts, grass blades	2)	<b> </b>	<u>†</u>							
	45-50 CLAY W/mir		H	CL							-
	sity CLAY. Ligrngry		F-7-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 +	-					-
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	Water Table (24 Hour)			1		APHIC LO				DRILLED	PAGE D1 Z of Z
	V Water Table (Time of Boring) PID Photoionization Detection (ppr	m)			Cr	.AY	DE FIL	:BRIS .L		- 6 - C	- '
	NO. Identifies Sample by Number IYPE Sample Collection Method	,			III sii	ίΤ		HLY GANIC (PEAT	PE	RCU.	V0122
EXPLANATION					SA		SA CL		DRILLE		
AN	SPLIT- BARREL AUGER	ROC COL							LOGGE		
Z X	THIN-				GF		CL. SA	.ND	IE.	9 X	rish
۱۱	WALLED CONTINUOUS SAMPLER	NO REC	) COVERY	(	SIL CL	.TY .AY			EXIST	NG GRADE	E ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of San	لاـــا mple			SIL SIL	AYEY			LOCAT	TION OR GI	RID COORDINATES
丄	REC. Actual Length of Recovered S	ample in F	-eet		<u> </u>	.1					

;				CORPO DEPAR	ORATION
T <sub>4</sub>					ATION DIAGRAM
9 9		<b>.</b>			~ C U 3 A
Protective Pipe		]			ent? Yes No   Mount
Yes ☐ No 💢	↓ 4==	<u>:</u>		ock? Yes [	
Steel 📗 PVC 🗌			W	eep Hole?	Yes 🗌 No 🔀
Surveying Pin ?	Ft.		, c	oncrete Pad	Ft. xFt. xInches
Yes No 🔀	10 V 20 00		- TV		DRILLING INFORMATION:
t			منبعا DEb	TH FROM	1. Borehole Diameter= 9 Inches.
Concrete	5 Ft. 7		BELOW GRADE	TOP OF	2. Were Drilling Additives Used? Yes No 🕱
<u> </u>			GRADE	CASING	Revert Bentonite Water
•					Solid Auger 🔲 Hollow Stem Auger 🗌
	1 1				3. Was Outer Steel Casing Used? Yes No
Cement/Bentonite Grout Mix					Depth=toFeet.
Yes No 🔀					4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to	0 Ft.				WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement &	<del></del>				I.Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌
Powder		1			Stainless Other
Other:					2. Type of Casing Joints: Screw-Couple 🔀 Glue-
			. 5		Couple Other
	1	<i>‱</i> }			3. Type of Well Screen: PVC 🔀 Galvanized 🗌
Bentonite Seal					Stainless Teflon Other
	3.5 Ft.				4. Diameter of Casing and Well Screen:
Pellets X Slurry	<u> </u>		8.5		Casing 2 Inches, Screen 2 Inches.  5. Slot Size of Screen: 0.020
Filter Pack	<b>↑</b> (23)	::			6. Type of Screen Perforation: Factory Slotted
Above Screen _	1.2 Ft.				Hacksaw Drilled Other
		}	9.7		7. Installed Protector Pipe w/Lock: Yes No
	1-1-1-1-1-1			<del></del>	WELL DEVELOPMENT INFORMATION:
		}			I. How was Well Developed? Bailing Dumping
		.			Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		. }			2. Time Spent on Well Development ?
Silica Sand		}			/Minutes/Hours
Washed Sand 🛛	30 Ft ]				3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌					4. Water Clarity Before Development? Clear
Other:		: :			Turbid U Opaque []
					5. Water Clarity After Development? Clear  Turbid Opaque
Sand Size 3-17	.   }:: 🗄				6. Did Water have Odor? Yes No
	1		39.7		If Yes, Describe
Dense Phase Sampling Cu	,				7. Did Water have any Color? Yes No
Bottom Plug	0.3 Ft.				If Yes , Describe
Yes ⊠ No □			40		WATER LEVEL INFORMATION:
Overdrilled Material Backfill	10 Ft.				Water Level Summary (From Top of Casing)
Grout Sand	10 Ft.				During Drilling $\frac{10}{2-6-01}$
Caved Material			50	_	Before DevelopmentFt. Date
Other: bentonite	1				After Development Ft. Date
Deitte (5: ) AV(	1F		Doill Dia T	. ΔP_1	OTOTO Data Installed 7-1
Driller/Firm LAYA					Kern-McCon
Drill Crow Perry 1-	torman	·	Well No.	PC 10	9 Hydrologist Ed Krish

	KE Hy	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSID		. C		LOCATION HEN	DEK	্ ১১	on l	u 🗸	BORIN	IG JER PC 110
	РТН			¥.	UNIFIED SOIL		PID		SC	OIL SA	MPLE		
	N ET	LITHOLOGIC DESCRIPTIO	N .	GRAPHI LOG	FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEF		REC.	REMARKS OR FIELD OBSERVATIONS
	_	0-6 SAND, grave	elly.	0.00									
	-	yell brn (1048 5/2). Y	f-cq	000	51.1								-
		5A-8R, vole w/ 30-1	40%	0.0	300								-
1	$\dashv$	SR gravel to 2" w/		0.0.0			<del></del> .						
6		4" . 5p. 51+ (10%)		0.0:0	*************				$\vdash$	***************************************		· · · · · · · · · · · · · · · · · · ·	
X		Calcuraous	$\perp \perp$	0.00				İ					-
l	$\dashv$	6-19 GRAVEL, 50		0 0 0									-
10	$\dashv$	Yell brn. Gravel, SA	\-'R,	0000									dampe 11' -
and concentration.		volc, ave 2", local	ly to	0.00	GW								
	4	4". Contains 30-	40%	1000 1000 1000									WTR Q 131
1,0	,	Vf-VL, 5A-5R sand 10 % silt. Calcared	and	0000 0000 0000									
',				0000									
		locally calichefied	١.	0000									
1,,	- 1	12-14 hard		000									_
20	. 1	19-20 CLAY, 5/4,	brn	777	CL				$\neg$				damp
	P	ZO-ZZ SAND, SIty		泊	5M								damp -
27	2	vfg, A-SA sd w/ 30-40	12 J	000					_			***************************************	
		calcareous		0000									WTR@ 22' _
25	$\dashv$	ZZ-37 GRAVEL,	sdy.	0.00		}		-					
	$\dashv$	Pale yell brn (10 yr 6)	(2).	200		-							_
	1	Abu cement (calcar	reous	9		1	_		l				. –
	4	and silicious), Very	Hard	0.00	GW	-							
30	,	Volc gravel to 3", 5	A-R,	0.0.0		ŀ							<u> </u>
		contains zo-30% v	f-vc	00.00		t							_
	4	SA-SR sand.		000					l	•			
ے د	/	27-28' cobbles of 1+ 9+3+e to 6"	brn	0.00		-							_
ادد		913146 40 6"	k	Zigo:		Į	_						
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	+	TD37' (REFUSA)	<b>-</b> )			-	_						-
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	<u>¥</u>	Water Table (24 Hour)					APHIC LO					DRILLED	PAGE
	V PID	Water Table (Time of Boring) Photoionization Detection (ppr	m)			c	LAY	D F	EBRI:	S	DRILLI	NG METH	0)   of
	NO. TYPE	Identities Sample by Number	• 1			∭ sı	LT		GHLY RGANIC	(PEAT)	P	ERC	N012102
EXPLANATION	$\square$					S.		S				D BY	
AN		SPLIT- BARREL AUGER	RO CO	CK RE							LOGGE	D BY	, ,
EXP		THIN-	\[\bar{\bar{\bar{\bar{\bar{\bar{\bar{			G		S	AND	•			Krish
		WALLED CONTINUOUS SAMPLER	NO REC	COVERY		Si	LAY				EXISTI	NG GRAD	E ELEVATION (FT AMSL)
	DEP REC	TH Depth Top and Bottom of San C. Actual Length of Recovered So		SI SI	LAYEY LT				LOCAT	ION OR G	RID COORDINATES		

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe -------- Casing Cap Vent? Yes M No \_\_\_\_Lock ? Yes 🗌 No 🔀 Yes 🔯 No $\square$ Weep Hole? Yes ☐ No ☑ Steel D PVC Ft. Surveying Pin ? --Concrete Pad \_\_\_\_Ft. x \_\_\_\_\_Inches Yes $\square$ No 🔯 DRILLING INFORMATION: 1. Borehole Diameter= 9 Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No M Concrete GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix Yes 🗌 NoX 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: O Ft. 94Lb. Bag Cement & 3-5 Lb. Bentonite 1. Type of Casing: PVC 😭 Galvanized 🗌 Teflon 🗌 Powder Stainless Other \_ Other: 2. Type of Casing Joints: Screw-Couple Glue-Couple Other 3. Type of Well Screen: PVC 🖫 Galvanized 🗌 Stainless Teflon Other Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 2 Inches, Screen 2 Inches. Pellets Slurry 5 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted 💢 <u> 1</u>7 Ft Above Screen Hacksaw 🔲 Drilled 🗌 Other 7. Installed Protector Pipe w/Lock: Yes [] No [ 6.7 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand \_/\_\_\_\_ Minutes/Hours 30 Ft. Washed Sand 🗖 3. Approximate Water Volume Removed ? \_\_\_\_ Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: \_\_\_ 5. Water Clarity After Development? Clear Turbid | Opaque 🗍 Sand Size \_ 3 -12 6. Did Water have Oder? Yes No ... 36.7 If Yes, Describe \_\_\_ Dense Phase Sampling Cup J. 3 Ft. 7. Did Water have any Color? Yes No No Bottom Plug If Yes . Describe No □ 37 Yes 🔼 WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) Backfill During Drilling 13 Ft. Date 2-6-01 Ft. Grout Sand Before Development Ft. Date Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: \_\_\_ Driller/Firm LAYNE Drill Rig Type AP-1000 Date Installed Z-6-01 Drill Crew Perry Horman Well No. PC 110 Kerr-McGee Hydrologist

	KE Hy	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSID		LC		LOCATION	DEKS	·ον	٠. ٨	V	BORIN	IG ER P	<u> </u>	 
D	EPTH				UNIFIED	BLOWS		T T		OIL SAN			T	====	
F	IN	LITHOLOGIC DESCRIPTION	DN .	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPT		REC.		REMAR OBSE	KS OR RVATIONS
	_	0-19 GRAVEL, S	dyż	0,00				<b></b> -	-				<b></b>		
		SAND, gravelly, 11		0.00				İ							
	_	bedded (fining upwa	rd	000											
برا		sequences). Die ge	11 brh	0							1				
5		104R 4/2), SI-calca	areous	2000	,										_
	_	Sdis f-c w/minor		8000	GW										
l		A-SR, 30-401/0 ingr		0 P	SW										
	_	Gravel is A-SR, volc,		0000									1		
10	· —	1-2" W/mmor 4", Z	0 - 30%	00.00									2).		^ I =
Mary Transport	_	in sand		0.00									Va	mp	e 10'-
	-	0-3 saygravel		0.00									ĺ		
		3-5 sd w/minor pea	gravel	0 00											-
13		5-6 say gravel		000											-
	-	6-8 sand w/mino	or 5m	00.00											_
	-	gravel (to 1/2")		0000											
١.,		8-9 say growel to	4"	0010 0010							1				=
19	1	9-10 Sd, gravelly,		8.95					$\vdash$						
		1/2-3/4"	mostly	0000									WT	S @	9' -
	_		,	1:101									ĺ		
	-	10-19 peagravel, sd 4" cobbles @ 14-1	$u \omega / \sqrt{\omega}$	001:1:	- ,										-
_	/	boulders 18'-19'w/		0.0.0	GW						İ				-
Z	, $\dashv$		1	0.0.0											-
		19-30 GRAVEL, 50	Ψ,	0.00.0											-
	4	HARD, Well comen	tea	00.00		1									-
	4	brn (5 YR 5/4). Volc 1		0.0.0			_								-
3	$^{o}$	gravel to 3/4" w/ 20-	1-5R	<u> 0 0 0.</u>							_				-
		Sd.										İ			-
		22-24 60% vf-m s	d (5/4)	) - [ ]	2M										-
		matrix in weakly ce,	nented												-
35	-	gravel		귀									1)		-
	4	22-29 dec in cemer	1+ 4			-	_				1		MC	. @ :	351 -
	4	gravel size to 3/0"-	/z"		ML		-								-
		29-30'1" SA-SR un-cer	mented			ŀ	-				l				-
	}	volc gravel		$\cdot   \;   \;   \;   \;   \;   \;  $											_
	<b>T</b>	Water Table (24 Hour)				GR	APHIC LO	OG LEC	GEN	D		DRILLED		PAGE 1	. 1
	고 PID	Water Table (Time of Boring)	,			C	LAY	D F	DEBRI ILL	is 🗔		7 - C	1		of Z
_	NO	. Identifies Sample by Number	m)			∭ s		FT H	IGHLY	1	_			on	
Ö	TYPI	Sample Collection Method									RILLE	D BY			
NAT		SPLIT- RAPPEI AUGER	RO			S s	DNA	$\square$ $\stackrel{\circ}{\sim}$	LAY			•	YNE		
EXPLANATION	$ \square $	BARREL	co			G	RAVEL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LAYI	EY	.OGGE		1 1	<i>d</i>	
Ä		THIN- WALLED TURE CONTINUOUS SAMPLER	NC	) COVERY		S S			MINU	L	XISTI	E &	E ELEVATI	CISH ON (FT A	MSL)
	0.00			LOVERI						— L					•
	RE	PTH Depth Top and Bottom of Sar C. Actual Length of Recovered S	nple ample in	Feet		S	ILT			— [ <sup>¯</sup>	OCAT	ION OR G	RID COOR	DINATES	

Γ	KE	RR-McGEE CORPORATION	KM SUBSID				LOCATION				BORIN	IG O . U.I
F		drology Dept S&EA Division	IKM		_ل_C	T		DER	80 r	1 NV	NUMB	ER PC III
1	EPTH IN	LITHOLOGIC DESCRIPTION	N	APHIC	UNIFIED	BLOWS PER	PID			L SAMPLE		REMARKS OR
_	EET			8-	FIELD CLASS.	6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
14	f 1 -	30-35 SAND, SI	<u>+4</u> , .		ML					Mana variencerscena carre	area construente a presidente a	enthesis designation in the second class reserving the Park and the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of the second results of th
		partly cemented, oran (104R7/4). C	3ry									-
	4	oran (104R7/4).C	arb.		001							-
7	5-	cementel 35-37'.	/f-fg,		ML							_
		A-SR, sp. carb. 3										-
4	8	35-41 SILT, 1k	gry	1111								-
1	4	orange (10 YR 6/4)		M	ML/CI						The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	earth and the season and the UES consequences in the description to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the season to the
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5	2 -	interbedded sity SAND,	, dk		5M							-
		gry orange. Vfg, A-s.		1:11.								
5	لء	48-50 SILT, claye	y, red	1111								_
		brn (10R4/4) +r-sp	gypsum		ML							
	$\dashv$	50-52 SAND, 5/4	, gry									<del>-</del>
		orange (104R7/4). V	f, A-5 R	]   ]								_
6	0-	w/30-40% silt tr-s	Pgyp									_
	1	52-60 SILT, sdy, a	nd			-						_
	1	SILT, interbedded,	brn.									
	4	20-30% vfg 5d locall	y.									_
	$\dashv$	Com gypsum 56-51	3'									
	1	TD 601										-
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	又	Water Table (24 Hour) Water Table (Time of Boring)			ŀ		APHIC LO				7 <b>-</b> 0	PAGE  1 Z of Z
	PID NO.	Photoionization Detection (ppi Identifies Sample by Number	m)			CI		DI FI		DRILLI	NG METHO	ac
NO	TYPE	Sample Collection Method				III sı	LT	OR OR	GHLY !GANIC (PI	EAT) DRILLE	ERCI	US510N
VATI		SPLIT-	ROO	CK.		SA SA	AND	S s	ANDY LAY		LAS	YNE
EXPLANATION		BARREL	co			G	RAVEI	CI SA	LAYEY AND	LOGGE		Krish
ద		THIN- WALLED CONTINUOUS TURE SAMPLER	NO	OVERY		SI CI				`		ELEVATION (FT AMSL)
		TUBE SAMPLER  [H Depth Top and Bottom of Sam	لاا	.UVERT		CI SII				-		•
	REC	Actual Length of Recovered S	npte ample in f 	eet		OTA SI	LT	Ш_		- LUCAT	ion or ge	RID COORDINATES

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM FLUSH													
Protective Pipe		Ca	sing Cap Ve	ent? Yes 🛛 No 🗆 Mount									
Yes 🗌 No 🔯 📗													
Steel PVC	— <u>}</u> [	W	eep Hole ? Y	res No 🕅									
Surveying Pin ?F	<sup>L</sup> -	C	ncrete Pad	Ft. x Ft. x Inches									
Yes No No				DRILLING INFORMATION:									
10.00		DEP	TH FROM	0									
Concrete 5 F		BELOW	TOP OF	2. Were Drilling Additives Used? Yes No 🛛									
		GRADE	CASING	Revert Bentonite Water Solid Auger Hollow Stem Auger									
<b>†</b>				3. Was Outer Steel Casing Used? Yes No 🛛									
Cement/Bentonite Grout Mix				Depth=toFeet.									
Yes No No				4. Borehole Diameter for Outer CasingInches.									
5.5 Gallons Water to				WELL CONSTRUCTION INFORMATION:									
94Lb. Bag Cement &				1. Type of Casing: PVC 😿 Galvanized 🗌 Teflon 🗌									
Powder				Stainless Other									
Other:				2. Type of Casing Joints: Screw-Couple 🔀 Glue-									
				Couple Other									
	-			3. Type of Well Screen: PVC 🛛 Galvanized 🗌									
Bentonite Seal				Stainless Teflon Other									
3 F	<sup>ಒ</sup> ⊠ ₩			4. Diameter of Casing and Well Screen:									
Pellets Slurry -	-	8		Casing 2 Inches, Screen 2 Inches.  5. Slot Size of Screen: 0.020									
Filter Pack				6. Type of Screen Perforation: Factory Slotted									
Above Screen 2 F	<b>L</b>	,		Hacksaw Drilled Other									
		10		7. Installed Protector Pipe w/Lock: Yes No									
	1 1 1			WELL DEVELOPMENT INFORMATION:									
	1: 目::1			I. How was Well Developed? Bailing 🗌 Pumping 🔀									
FILTER PACK MATERIAL	1 日 1			Air Surging (Air or Nitrogen)   Other									
			*	2. Time Spent on Well Development ?									
Silica Sand	.1: [글 :]			/ Minutes/Hours									
Washed Sand 🗵	비님			3. Approximate Water Volume Removed ? Gallons									
Pea Gravel 🗌				4. Water Clarity Before Development? Clear 🗍 Turbid 📗 Opaque 🗍									
Other:	[日]			5. Water Clarity After Development ? Clear [									
	1 目 1			Turbid Opaque									
Sand Size	1 目 1	35		6. Did Water have Oder? Yes No									
	-[-[-]-]			If Yes, Describe									
Dense Phase Sampling Cup 0.3				7. Did Water have any Color? Yes No No									
Bottom Plug Yes No		35.3		If Yes , Describe									
Overdrilled Material				WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)									
Backfill $24.7$ F Grout Sand				During Drilling Ft. Date 2-7-01									
Caved Material	_\/	60		Before DevelopmentFt. Date									
Other: bentonite				After Development Ft. Date									
	_	· · · · · -	Λ 🕢 .	1202									
Driller/Firm LAYNE	(	Orill Rig Typ	e / 1 - 1	Date Installed Z-7-01  Kerr-McGee									
Drill Crew PERRY HORN	nan	Well No.	PC - 11	Hydrologist Ed Krish									

	RR-McGEE CORPORATION	KM SUBSIDIA				LOCATION			<u> </u>	BORII	NG BER PC112
<del></del>	drology Dept S&EA Division	KMC	υ I	UNIFIED	DI CHIE	Hend	erso				10112
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHI	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	<del></del>	REMARKS OR FIELD OBSERVATIONS
5 —	0-12 SAND, 51+c W/10-15% 51+ and Volc granules. rf-cgw/mmor vcg SR Mod-com c-vc sd caliche nodules	3.5A- 5.3e		SMY GM					en la maria de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de		damp @ 121
15 — - - - 20 —	20-30% vfg, A-SA 15-ZZ SAND, So brn to 19', gry yell (5GY 7/2) to ZZ' 20-30% silt in vl SA sand	ity, grn		SM				٠			WATER @ 20'
22 - - 25 — - - -	22-30 GRAVEL, sdy. brn. Gran pea gravel size to Com caliche not 30-40 % silt mat 20 % vfg sd	ules rxw/	000000000000000000000000000000000000000	GM							
33 35	22-26 cln, pea g 26-30' V. sltypea g 30-33 SAND, s dk yell brn (104R4/2 40% silt in vf-m  cg, SA-R sd. Calca 33'-4-Z' GRAVEL, 5lty (probably this upward allovial see	Jravel  Ity,  ).30-  w/mino reous  say &  fining	1000	SM	<u> </u>						
EXPLANATION TANA	Water Table (24 Hour)  Water Table (Time of Borin Photoionization Detection ()  O Identifies Sample by Numb Sample Collection Method  SPLIT AUGER  THIN WALLED TUBE  DEPTH Depth Top and Bottom of Sample Collection Method	s	ROCK CORE NO RECOVE	RY		CLAY  SAND  GRAVEL  SILTY  CLAY  CLAY  SILTY  CLAY  SILTY		DEI FILI HIGH ORG	BRIS L	LOGGED B LOGGED B E	-01 1 of Z ERCUSSION Y AYNE

	ERR-McGEE CORPORATION	ARY			LOCATION	,		. 15/	BORING NUMBE	PC 112		
<u> </u>	lydrology Dept S&EA Division	Kma				Heno	ers				ik / C //Z	_
DEPT IN FEE	LITHOLOGIC DESCRIPTION	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	TYPE TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATION	12
47 50	dkyell brn. Gravel  (ave 1") Com caliche  Volc, SA-SR. SAND  SR-SA, calcareous  34-35' lg volc cobb  4"  4z-43' lg volc cobb  4"  4z-47 SAND, sit  rninor SILT, interb  brn, Vf-f, SA-SR, n  calcareous 20-30"	rode.  VF-C,  les to  yand  edded  silt  (10 YR  SA-SR  11/2 11  Sdy  (5 Y 8/1)	#5 元(0) (三) (三) (1) (1) (2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	CLASS.	6"		NO.	176		REC	MC @ 501	
												- - -
	▼ Water Table (24 Hour)					GRAPHIC	LOG LI	GE	שאו	ATE DRILLED		2
EXPLANATION	Vater Table (Time of Borin Photoionization Detection (p NO. Identifies Sample by Numb Sample Collection Method	pm)			1	CLAY		HIGH	ILY ANIC (PEAT)	RILLED BY		
ANA	SPLIT- BARREL AUGER		ROCK Core		10000	SAND			ī	OGGED BY		
XPL,	THIN-				- 1	GRAVEL		ŠĀ	AYEY ND	EL	KRISH DE ELEVATION (FT. AMSL)	
"	WALLED CONTINUOU SAMPLER	5	no recove	RY	1 23	SILTY CLAY				NOTING GRA	THE ELEVATION (FT. AMSE)	
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		in Feet	2.5	<u> </u>	CLAYEY			i	OCATION OF	GRID COORDINATES	

MONITORING WELL  Protective Pipe	A DEPARTMENT  INSTALLATION DIAGRAM  Casing Cap Vent? Yes
Protective Pipe Yes  No  Steel  PVC  Ft.  Surveying Pin ? Yes  No  Steel  PVC  Ft.  Concrete  Ft.  Concrete  Ft.  Concrete  Ft.  BELOW GRADE  Cement/Bentonite Grout Mix Yes  No  Steel  OFt.  3-5 Gallons Water to 94Lb. Bag Cement & OFt.  3-5 Lb. Bentonite Powder  Other:  Bentonite Seal  Ft.  Filter Pack  Above Screen  I.OFt.  Filter Pack  MATERIAL  Silica Sand  Mashed Sand  AOFt.  Pea Gravel  Other:  Sand Size 3-12	Casing Cap Vent? Yes No No No No No No No No No No No No No
Yes   No   Steel   PVC   Surveying Pin?   Ft.   Yes   No   Steel   PVC   Surveying Pin?   Ft.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   No   Steel   Pt.   Yes   Yes   No   Steel   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Yes   Ye	Lock? Yes No No No Weep Hole? Yes No No Concrete Pad Ft. x Inches    PTH
Steel   PVC   Surveying Pin?   Ft. Yes   No   DE    Concrete   Ft.   DE    Concrete   Ft.   DE    Concrete   Ft.   DE    Concrete   Ft.   DE    BELOW GRADE    Cement/Bentonite Grout Mix   Yes   No   Mix    5.5 Gallons Water to   94Lb. Bag Cement & O   Ft.    3-5 Lb. Bentonite   Powder    Other:	Concrete PadFt.xInches    PTH
Surveying Pin? Ft. Yes No S  Concrete Ft.  BELOW GRADE  Cement/Bentonite Grout Mix Yes No S  5.5 Gallons Water to 94Lb. Bag Cement & 3-5 Lb. Bentonite Powder  Other:  Bentonite Seal Z Ft.  Pellets Slurry Ft.  Filter Pack Above Screen 1.0 Ft.  FILTER PACK MATERIAL Silica Sand Washed Sand Mashed Sand Mashed Sand Mashed Sand Mashed Sand Mashed Size 3-12  Sand Size 3-12	PTH   I. Borehole Diameter   9   Inches   No Marker   Solid Auger   Hollow Stem Auger   Solid Auger   Hollow Stem Auger   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No Marker   No
Yes No	PTH FROM TOP OF CASING  2. Were Drilling Additives Used? Yes No  Revert Bentonite Water Solid Auger Hollow Stem Auger 3. Was Outer Steel Casing Used? Yes No  Depth= to Feet.  4. Borehole Diameter for Outer Casing Inche WELL CONSTRUCTION INFORMATION 1. Type of Casing: PVC  Stainless Other 2. Type of Casing Joints: Screw-Couple Glue Couple Other
Concrete Ft. BBLOW GRADE  Cement/Bentonite Grout Mix Yes No S.5 Gallons Water to 94Lb. Bag Cement & O Ft. 3-5 Lb. Bentonite Powder  Other:  Bentonite Seal Z Ft. Ft. Ft. Ft. Ft. Ft. Ft. Ft. Ft. Ft.	FROM TOP OF CASING 2. Were Drilling Additives Used? Yes No X Revert Bentonite Water Solid Auger Hollow Stem Auger 3. Was Outer Steel Casing Used? Yes No X Depth To Feet.  4. Borehole Diameter for Outer Casing Inch.  WELL CONSTRUCTION INFORMATION Stainless Other  Stainless Other  2. Type of Casing Joints: Screw—Couple X Gluctonian Couple Other
Cement/Bentonite Grout Mix Yes  No 5.5 Gallons Water to 94Lb. Bag Cement & 7  Bentonite Seal  Ft.  Pellets Slurry  Fitter Pack Above Screen  No Ft.  Silica Sand  Above Screen  No Ft.  Pea Gravel  OFt.  Pea Gravel  OFt.  Pand Size 3-12	TOP OF CASING 2. Were Drilling Additives Used? Yes No X Revert Bentonite Water Solid Auger Hollow Stem Auger Solid Auger Hollow Stem Auger No X Depth= to Feet.  4. Borehole Diameter for Outer Casing Inches WELL CONSTRUCTION INFORMATION Stainless Other  2. Type of Casing Joints: Screw—Couple X Glue Couple Other
Concrete	CASING  2. Were Drilling Additives Used? Yes No X Revert Bentonite Water Solid Auger Hollow Stem Auger Solid Auger Hollow Stem Auger No 3. Was Outer Steel Casing Used? Yes No 5  Depth=toFeet.  4. Borehole Diameter for Outer CasingInch.  WELL CONSTRUCTION INFORMATION INFORMATION Stainless Other Stainless Other Solid Glucture Couple Stainless Screw—Couple Solid Glucture Couple Other Solid Couple Other Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Screw—Couple Stainless Stainless Stainless Stainless Stainless Stainless Stainless Stainless Stainless Stainless Stainles
Yes No S  5.5 Gallons Water to 94Lb. Bag Cement & O Ft. 3-5 Lb. Bentonite Powder  Other:  Bentonite Seal  Z Ft.  Pellets Slurry  Filter Pack Above Screen  FILTER PACK MATERIAL Silica Sand Washed Sand  Pea Gravel  Other:  Sand Size 3-12	Solid Auger  Hollow Stem Auger    3. Was Outer Steel Casing Used? Yes  No    Depth=toFeet.  4. Borehole Diameter for Outer CasingInch  WELL CONSTRUCTION INFORMATION  1. Type of Casing: PVC  Galvanized  Teflon  Stainless  Other  Glue  Couple  Other  Glue
Yes □ No ⋈         5.5 Gallons Water to 94Lb. Bag Cement & 3-5 Lb. Bentonite Powder       O Ft.         Other: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	3. Was Outer Steel Casing Used? Yes No \( \)  Depth=toFeet.  4. Borehole Diameter for Outer CasingInch  WELL CONSTRUCTION INFORMATION  1. Type of Casing: PVC \( \) Galvanized \( \) Teflon  Stainless \( \) Other \( \)  Couple \( \) Other
Yes ☐ No ☒  5.5 Gallons Water to 94Lb. Bag Cement & ☐ Ft. 3-5 Lb. Bentonite Powder  Other: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Depth=toFeet.  4. Borehole Diameter for Outer CasingInch  WELL CONSTRUCTION INFORMATION  1. Type of Casing: PVC To Galvanized Teflon  Stainless Other  2. Type of Casing Joints: Screw-Couple To Glue  Couple Other
Yes □ No ⋈         5.5 Gallons Water to 94Lb. Bag Cement & 3-5 Lb. Bentonite Powder       O Ft.         Other: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	4. Borehole Diameter for Outer CasingInche  WELL CONSTRUCTION INFORMATION  1. Type of Casing: PVC  Galvanized  Teflon  Stainless  Other  2. Type of Casing Joints: Screw—Couple  Glucture  Couple  Other
5.5 Gallons Water to 94Lb. Bag Cement & 3-5 Lb. Bentonite Powder  Other:  Bentonite Seal  Pellets Slurry  Filter Pack Above Screen  FILTER PACK MATERIAL Silica Sand Washed Sand Pea Gravel  Other:  Sand Size 3-12	WELL CONSTRUCTION INFORMATION  I.Type of Casing: PVC Galvanized Teflon Stainless Other  2. Type of Casing Joints: Screw-Couple Glucture  Couple Other
94Lb. Bag Cement &	I.Type of Casing: PVC 🔀 Galvanized 🗌 Teflon Stainless 🗍 Other  2. Type of Casing Joints: Screw—Couple 🔀 Glue Couple 🗍 Other
Powder	Stainless Other  2. Type of Casing Joints: Screw-Couple Glue Couple Other
Bentonite Seal	2. Type of Casing Joints: Screw-Couple 🔀 Glud
Bentonite Seal  Pellets Slurry 6  Filter Pack Above Screen  FILTER PACK MATERIAL Silica Sand Washed Sand MPea Gravel 6  Other: 6  Sand Size 3-12	Couple Other
Bentonite Seal   Z   Ft.	3. Type of Well Screen: PVC 🕱 Galvanized 🗌
Pellets   Slurry	
Pellets Slurry	Stainless 🗌 Teflon 🗋 Other
Filter Pack Above Screen  7  FILTER PACK MATERIAL Silica Sand	4. Diameter of Casing and Well Screen:
Above Screen	Casing 2 Inches, Screen 2 Inch
Above Screen	5. Slot Size of Screen: 0.0 20
FILTER PACK MATERIAL  Silica Sand	6. Type of Screen Perforation: Factory Slotted 🔀
Silica Sand	Hacksaw Drilled Other
Silica Sand	7. Installed Protector Pipe w/Lock: Yes \( \) No \( \)
Silica Sand ☐	WELL DEVELOPMENT INFORMATION  1. How was Well Developed? Bailing Dumping
Silica Sand	Air Surging (Air or Nitrogen)  Other
Washed Sand ☑       40 Ft.         Pea Gravel □       ————————————————————————————————————	
Pea Gravel  Other:  Sand Size 3-12	2. Time Spent on Well Development?
Pea Gravel  Other:  Sand Size 3-12	
Other: Sand Size 3-12	4. Water Clarity Before Development? Clear
Sand Size 3-12	Turbid Opaque
	5. Water Clarity After Development? Clear
	Turbid Opaque
	6. Did Water have Oder? Yes No
	If Yes, Describe
Dense Phase Sampling Cup 0.3 Ft.	If Yes , Describe
Yes   No   A7.3	
Overdrilled Material	
Backfill 6.7 Ft.	WATER LEVEL INFORMATION:
Grout Sand	Water Level Summary (From Top of Casing)
Odvod material [X]	Water Level Summary (From Top of Casing)  During Drilling 20 Ft. Date 2-7-6
Other:	WATER LEVEL INFORMATION:

P:A 6/03

DEPTI IN FEET			ـ		HEND	ERSO	n	, NV	NUMBI	G PC 113
	n j	¥.,	UNIFIED	BLOWS	810		SO	IL SAMPL	Ē	DEMARKS OF
	LITHOLOGIC DESCRIPTION	GRAPHI LOG	FIELD CLASS.	EE 6	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	- 0-12 GRAVEL,	sdy, 00								_
	- dkyell brn (lox 4/2)	), w/ 1000								-
	20-30% m-vc ,54-R									_
5 -	Tvolc gravel, A-SR u	10:-0	GW							_
•	1111		GW							
	0-5' grav to 1"	ي في د	,		·					
	3 3 40 10	0.00			_					• -
_	5-11' grav to 1/2"	0 0								,
	11-12 grav to 4"	200								WTR @ 10' -
12		000								
	- 12-15 SAND, SHY,	1.91 1 6.1	SM		-					-
15-	f-cw/mmor vf & vc	+ gran	2M							-
13	1 to 1/2 ", 20 % silt		1							
	- 15-ZO SAND, sity,		:		<del> </del>					-
	yell brn (10486/2). V		SM		_					-
Z0 -	-w/minor mg, SA-SR. 2	20-30%	3							
	15,1+, non-calc	0000								-
	- 20-25 GRAVEL, AK		GP		<u> </u>				İ	-
	- brn (10 YR b/2), contain	- 01 2			<u> </u>					-
25-	-15% vf-vc, SA-sR sd	2 11 11 000	5							-
-1	granule-peagrav. to W/minor 1", SA-SR. Sp Caliche nodules to	18 - 12	:							-
	The modules to	3/8"	SM		-					-
	25-30 SAND, 514y		3		- *					
30 -	1							-		
	- silt. Vf-VC, SA-SR	5d.								MC @ 30'
	-non-calc, minor gra	nules			<del></del>					1110 6 30
	100/0) to 3/8"					1				-
35-	- 30-44. SILT & cly interbookled, brn (548 - H grn gry (5GY 8/1), r	51LT,	ML							
	- interbodded, brn (54)	25/4) \$   1	] }		_					
	-1+ grn gry (564 8/1), r	nod	1		-					
	Trf gypxtals. non-e	alc. Ny	CL							· ,
<u> </u>					<u> </u>	<u></u>				
1 1	Water Table (24 Hour)				RAPHIC I			7	L - 8 -	PAGE OI OF Z
	Water Table (Time of Boring PID Photoionization Detection (p				CLAY		DEBR FILL	GS OR	ILLING MET	
	NO. Identifies Sample by Numbe IYPE Sample Callection Method				SILT		HIGHLY ORGAN	MC (PEAT)	PERCY	V 01 Z 2 C
EXPLANATION					SAND			10.,	LAY.	JE
NA N	SPLIT- BARREL AUGER	ROCK CORE		1				VEY LO	GGED BY	1/-
XP	THIN-			1	GRAVEL		SAN	11	60	Krish
"	WALLED CONTINUOUS SAMPLER	NO RECOVE	RY	183	SILTY			EX	ISTING GRA	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered				CLAYEY SILT			\\	CATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIA				LOCATION HEND	ersa	2 N . N	J V BO	RING PO	 _ )13
DEPT		1		UNIFIED	BLOWS			SOIL SA			
FEE	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	PID (ppm)		DEP		1	EMARKS OR OBSERVATIONS
44	- 44-50 SILT, say	, brn,	// //	CL &							-
50-	- w/10-20% v1g sd, 5	194-PLANNE LEAN CHAIRE SIN SI A AN		ML					n vystan gapi dan		•
54	- 50-54 CLAY & SIA CLAY, It grn gry. n blk organic frags. t rf gypxtals. 10-20	7 Nod r-sp	11/1	CL							
	Vf gyp xtals. 10-20 10 cally. to cal CaD3  TD 54  Water Table (24 Hour)	70 silt cement				FRAPHIC I	OG LEG	GEND	DATE DRIL	LED	PAGE
	Water Table (Time of Boring PID Photoionization Detection (pp NO. Sample Sample by Number TYPE Sample Collection Method	om) r	OCK			CLAY SILT SAND		DEBRIS ILL IGHLY RGANC (PEAT) GANDY LLAY	LA	RCU15	10n
EXPLANATION	BARREL  THIN- WALLED TUBE  DEPTH Depth Top and Bottom of So	N RI	ORE O ECOVE	₹Y		GRAVEL SILTY CLAY CLAYEY SILT		CLAYEY	E D EXISTING	KR1	ION (FT, AMSL)
Ш	REC. Actual Length of Recovered	Sample in	Feet								

:	KERR Hydi	-McGEE CORPORTION -MCGEE CORPORTION	ORATION
	Protective Pipe		
	Yes No No	Casing Cap Vi	11 1 3 3 1 3
	Steel PVC		Yes No X
	Surveying Pin ? Ft.	Concrete Pad	Ft. xFt. xInches
	Yes No No	<b>A</b>	DRILLING INFORMATION:
		DEPTH	I. Borehole Diameter= 9 Inches.
	Concrete 3 Ft.	BELOW TOP OF	2. Were Drilling Additives Used? Yes No
		GRADE CASING	Revert Bentonite Water
			Solid Auger   Hollow Stem Auger
	· · · · · · · · · · · · · · · · · ·		3. Was Outer Steel Casing Used? Yes No 📈
	Cement/Bentonite Grout Mix	· ·	Depth=toFeet.
	Yes No X		4. Borehole Diameter for Outer Casing Inches.
	5.5 Gallons Water to 94Lb. Bag Cement & O Ft.		WELL CONSTRUCTION INFORMATION:
	3-5 Lb. Bentonite		I.Type of Casing: PVC 🏹 Galvanized 🗌 Teflon 🗌
	Powder Other:		Stainless Other
			2. Type of Casing Joints: Screw-Couple Glue-
		3	Couple Other  3. Type of Well Screen: PVC Galvanized
	│		Stainless Teflon Other
	Bentonite Seal		4. Diameter of Casing and Well Screen:
	Pellets Slurry	4	Casing 2 Inches, Screen 2 Inches.
		1 — —	5. Slot Size of Screen: 0.0Z
	Filter Pack		6. Type of Screen Perforation: Factory Slotted
	Above Screen	•	Hacksaw Drilled Dther
		<i>5</i> .	7. Installed Protector Pipe w/Lock: Yes 🗌 No 🔯
			WELL DEVELOPMENT INFORMATION:
			1. How was Well Developed? Bailing D Pumping
	FILTER PACK MATERIAL		Air Surging (Air or Nitrogen) Other
	Silica Sand	•	2. Time Spent on Well Development ?
			/ Minutes/Hours
			3. Approximate Water Volume Removed ? Gallons
	Pea Gravel   \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}	4. Water Clarity Before Development? Clear  Turbid  Opaque
	Other:		Turbid   Opaque   5. Water Clarity After Development? Clear
	Sand Size 3-12	} ·	Turbid Opaque
	Sand Size	30	6. Did Water have Odor? Yes No No
	- I - I - I - I - I - I - I - I - I - I	(	If Yes, Describe
	Dense Phase Sampling Cup 0.3 Ft.	1	7. Did Water have any Color? Yes No
	Bottom Plug   Yes [X]K No	30.3	If Yes , Describe
	Overdrilled Material	1	WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
	Backfill 23.7 Ft.	(	During Drilling 10 Ft. Date 2-8-0
	Grout Sand	54	Before DevelopmentFt. Date
	Other: ben tonite	<u> </u>	After Development Ft. Date
	Other: Och Ton Te		
	Driller/Firm LAYNE	Drill Rig Type <u>AP</u>	1000 Date Installed 2-8-01
	Drill Crew PERRY HORMAN	Well No. PC 113	Kerr-McGee Hydrologist Ed Krish

		R-McGEE CORPORATION blogy Dept S&EA Division	KM SUBSIDI				LOCATION HENI	D & 0	· ·	~ NI	BORIN	G ER PC 114
DEF		Dogy Dept Sala Division	Kiri	U	UNIFIED	RI OWS		JE K				
FE	1	LITHOLOGIC DESCRIPTION	N	RAPHI	SOIL FIELD	PER	PID (ppm)	NO.	rype	DIL SAM	<del></del>	REMARKS OR FIELD OBSERVATIONS
<u> </u>		0 2 50 50 511		<u>ত</u>	CLASS.	6,		NO.	1	DEFIN	REC.	
		2-3 SAND, SIty, , yell brn( ). vf-			SM		_					
3	- 1	R, 30-40% silt	VC, A-	<b>达到3</b>								
	1-		······································	0 0								
	-	3-10 SAND, grave	sand	0000			<del>-</del>					_
	79	thin interbeds of sity.  k yell brn ( ),	vf-vc.	8000	sw							
	- s	14-SR W/20-30% volc	gran.	0.0			_					
	44	to 3/8". 20-30% silt i	n sily	0000			<del> </del>					· . =
10		zones. Com calc. 1-10 lg cobbles to 4	1	0101.10				<del> </del>			<del></del>	
				00.00								
	44	0-16 GRAVEL, Sdy	w/ +1 in	0000	GW		<u> </u>					
		nterbeds of sdy SILT		0000			<b>-</b>					
16		30-40%, rf-rc, SA. 1.calc. PEA Gravel.		0000								WTR @ 15' _
<b>\</b>	_]-			0,0			<u></u>					
	72	6-ZI SAND, \$1-	ty,brn		SM		<del> </del>					_
l		F-VC, SA-SR W/ Minor										-
2		granules. 20-307, si sl. Calcareous	, ) <del> -</del>	0:0					_			
				10110			_					
		21-29 GRAVEL,		0000								
		u/minor slty SAND in orn. sl. cale., 20-30	7 1	0618	GW	.,						
	-   "	rn. 51. CDIE., 20-38	70 V T -	000			_					_
	S	ilt in coarsenmed	ownward	11.1.			<u> -</u>					_
Z	$\frac{1}{2}$	role, SA-SR armel	.3/84-	00.00								
	` <del></del> -1';	Filt in coarsening d Folc, SA-5R gravel 12" to 25' then 3/4"	-1" to									MC@ 29'-
	_ <b>-1</b>   :	291 <u>28-29</u> com cob	bles 3"		CL		<u> </u>					_
37		29-32 CLAY, 1+	(rn	W								
1	19	Jry, Sp vf 5yp xtals	1		CL		<u> </u>					
35	- s	Poxid. organic frag	s	7.77					-			
		32-35 CLAY, 5144	pale	1								TD 351 -
	- c	32-35 CLAY, 514y, 514y, 514y, 10-2	07.511+	l								
	- 5	spayp, sp blkorgam					-			·	ļ	_
П	Y	Water Table (24 Hour)		<u>'                                    </u>		G	RAPHIC L	OG LE	GEI	ND D	ATE DRILLED	PAGE
	<u>V</u>	Water Table (Time of Boring	)				CLAY		DEB FILL	RIS 0	Z-8-	
1_	PID NO.	Photoionization Detection (prince identifies Sample by Number	om) r						HGHL	y	PERCL	)2210M
	TYPE	Sample Collection Method	( <del></del> -			1					RILLED BY	
EXPLANATION		SPLIT- BARREL AUGER		OCK ORE		1	SAND			T.	LAY,	NE
XPL		THIN.	n <b>a</b> n ,				GRAVEL		SAN	ID 154	Ed,	KRISH
"	V	WALLED CONTINUOUS SAMPLER		O ECOVER	RY.		SILTY CLAY			E	XISTING GRAC	DE ELEVATION (FT. AMSL)
		H Depth Top and Bottom of Sc				M	CLAYEY SILT				OCATION OR	GRID COORDINATES
	REC	. Actual Length of Recovered	Sample in	Feet								

·						ORATION	
•						RTMENT	
	MONIT	ORIN	G	NELL I	INSTALL	ATION DIAGRAM	FLUSH
Protective Pipe			٦	O	asing Cap V	ent ? Yes 🛛 No 🗌	Mount
Yes 🗌 No 🗹	1		1.	L	ock ? Yes [	_ No ⊠	MEODING
Steel PVC		1	Γ		Veep Hole?	Yes 🗌 No 🔀	•
Surveying Pin ?	Ft.				Concrete Pad	Ft. x	Et. v Inches
Yes No 🗵	-	#1 L	<u> </u>			DRILLING INF	<u> </u>
	0. V 0 %		1	DEI	PTH	1. Borehole Diameter=	
Concrete	3 Ft.		11	BELOW	FROM TOP OF		
College				GRADE	CASING	2. Were Drilling Additives  Revert  Bentonite	
	1					Solid Auger   Holl	
			-			3. Was Outer Steel Casing	· —
Cement/Bentonite Grout Mix							. 7
						Depth=to_	
						4. Borehole Diameter for (	Outer CasingIncl
5.5 Gallons Water to 94Lb. Bag Cement &	O Ft.					WELL CONSTRUCT	
3-5 Lb. Bentonite Powder			- }			1.Type of Casing: PVC 🔀	
Other:			- }			Stainless Other_	
						2. Type of Casing Joints:	· · · · · · · · · · · · · · · · · · ·
				3		Couple Other  3. Type of Well Screen: F	
	1		<b>₩</b>			Stainless Teflon	
Bentonite Seal	1					4. Diameter of Casing and	
Pellets Slurry -	Ft.			_		· · · · · · · · · · · · · · · · · · ·	
Leners 🕅 Sintry 🗌	1		▩ .	4			nches, Screen 2 Inc
Filter Pack	1		1			5. Slot Size of Screen:	0.020
Above Screen _	Ft.			4		6. Type of Screen Perfora	•
			<b>:</b> }			Hacksaw Drilled 7. Installed Protector Pipe	
		*1-4	::-{			·	
	1					I. How was Well Developed	
		: []	::			· ·	rogen) [ Other
FILTER PACK MATERIAL	<b>\</b>	ᇘ	. }			2. Time Spent on Well Dev	
Silica Sand 🔲	1 1	: []	$\cdot \cdot \{$				•
Washed Sand 📈 _	25 Ft.	· []					Minutes/Hours
	1 }	. EJ:				3. Approximate Water Volume	<del>-</del>
Pea Gravel 🗌	{	: El·	· :}			4. Water Clarity Before D Turbid	
Other:	}	: 目:				5. Water Clarity After De	
7-17		: 目:	. }			Turbid Opaque	
Sand Size 3-12	1 1	· 目·	• ]	30		6. Did Water have Oder 1	Yes No
***************************************	1	-17	$\cdot \cdot \cdot \cdot \cdot \cdot$	30	-	If Yes, Describe	
Dense Phase Sampling Cup	13 Ft		::}			7. Did Water have any Col	or? Yes 🗌 No 🗌
Bottom Plug	1	Ш		2. 7		If Yes . Describe	
Yes 🔯 No 🗌	1	يا	. إن	30.3		WATER LEVEL	INFORMATION:
Overdrilled Material	_		1				y (From Top of Casing)
Backfill	4.7 Ft.		j	_		During Drilling	Ft. Date
Grout Sand Caved Material	1		١	35		Before Development	Ft. Date
Other: bentonite					-	After Development	Ft. Date
Other: 3077 torri							

	ERR-McGEE CORPORATION logy Dept. Engineering Services	KM SUBSIDIARY	LC.		HEN	DER	<u>ح</u>	NB	BORIN NUMB	GPC1ZZ
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	NO.	SO L	IL SAMP	REC.	REMARKS OR FIELD OBSERVATIONS
<i>5</i> –	0-9 SAND, graving w/minor beda of a gravel. It brn.  Sand 50-70% vf  SA, W/ 10-20% in matrix  Gravels mostly pea w/minor 3-5" cobb	xie- ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	5P/ 5M							- - - -
9	9-18 Gravel, she pale yell brn, per gravels to 1/2" (50- w/ sdy matrix vf	7)							an Palagaga an Angaga (Angaga an Angaga Angaga an Angaga Angaga an Angaga Angaga an Angaga an Angaga an Angaga	
 25 —   	18-32 SANT, le gravelly to 1/2 in. 70% vf-vc sd, s	Hbrn.	5P							wet @ 26'
32 - - - 31 -	32-37 Gravel, vi SA-SR, to 5" dian 30% sdy matrix 37-40TD CLAY, 5 1+ gm gry, w/ sp. 8	n w/ 1000	N					Michigan Academics Conv. compyle		NO - CALICHE -
		17P: //	CL		D A DUIC 1	06.150	251	n Ind	TE DRILLED	@ 37 <sup>1</sup>
EXPLANATION A STANATION	Water Table (Time of Boring D Photoionization Detection (p D Identifies Sample by Numbe	ROCK CORE NO RECOVE	RY		SILT SAND GRAVEL		DEBRI TILL IGHLY DRGANI SAND CLAY	IS Z DF	RILLING METH	1 of 1 of 1

	McGEE CORPO	
	LOGY DEPAR ELL INSTALL	ATION DIAGRAM FLUSH
		nt? Yes \ No \ MOUNT
Yes No No	Lock ? Yes	1 No X1
Steel PVC	Weep Hole?	res No No
Surveying Pin ? Ft.		Ft. xFt. xInches
Yes No No	37.1	DRILLING INFORMATION:
( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	DEPTH FROM	1. Borehole Diameter= 8 Inches.
Concrete 2 Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used? Yes No
		Revert Bentonite Water
	<u> </u>	Solid Auger   Hollow Stem Auger
† } <u> </u>		3. Was Outer Steel Casing Used? Yes ☐ No ☒
Cement/Bentonite Grout Mix		Depth=toFeet.
Yes 🔯 No 🗌	en e	4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to 94Lb. Bag Cement &/5Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder		I.Type of Casing: PVC X Galvanized Teflon Stainless Other
Other:		2. Type of Casing Joints: Screw-Couple Glue-
		Couple Other
	17	3. Type of Well Screen: PVC Galvanized
Bentonite Seal		Stainless Teflon Other
Ft. ⊗ ⊗	_	4. Diameter of Casing and Well Screen:  Casing $\mathcal{L}$ Inches, Screen $\mathcal{L}$ Inches.
Pellets Slurry .		5. Slot Size of Screen: 0.020
Filter Pack		6. Type of Screen Perforation: Factory Slotted
Above Screen 4 Ft.		Hacksaw Drilled Other
	23	7. Installed Protector Pipe w/Lock: Yes 🗌 No 💢
1 伊国明		WELL DEVELOPMENT INFORMATION:
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		Air Surging (Air or Nitrogen) Other
Silica Sand 🔯		2. Time Spent on Well Development?
		3. Approximate Water Volume Removed ? 50 Gallons
Washed Sand L		4. Water Clarity Before Development? Clear
Pea Gravel 🗌		Turbid Opaque
Other:		5. Water Clarity After Development? Clear
Sand Size 8-12		Turbid Opaque
Sand Size		6. Did Water have Oder? Yes No X
		<ul> <li>If Yes, Describe</li> <li>7. Did Water have any Color? Yes ☐ No ☒</li> </ul>
Dense Phase Sampling Cup Ft. Bottom Plug		If Yes , Describe
Yes No	<b>4</b> 38	WATER LEVEL INFORMATION:
Overdrilled Material		Water Level Summary (From Top of Casing)
Backfill 2 Ft.		During Drilling Z-24-04 Ft. Date 27. 30
Grout Sand X  Caved Material	40	Before Development 2-24-34 Ft. Date 27. 02
Other:		After Development Z-25-04 Ft. Date 26-95
Driller/Firm ELITE / TENV	Drill Rig Type <u>Mo</u>	b. L 650 Date Installed Z-24-04
,	Well No. PC 18	Kerr-McGee  LZ Hydrologist ED KR15H
Dim Olea 101V		CD RICIO

KI	ERR-McGEE CORPORATION	KM SUBSIDIA		e		LOCATION HEN	reproduction () &	in NI A	ar /	BORING NUMBE	R PC 123
	logy Dept. Engineering Services	IKINIC		JNIFIED	DIOWS			SOIL SA			
DEPTH IN FEET	LITHOLOGIC DESCRIPTION	ОИ	GRAPHIC LOG	JNIFIED SOIL FIELD CLASS.	PER FOOT	PID (ppm)	NO.		PTH	REC.	REMARKS OR FIELD OBSERVATIONS
	0-1 Favenieur & F	المساسدة		and the second	eure tott mass	and the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the					and a second control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control
_	1-8 GRAVEL, SHY	,brn,	0000			_					
_	65 % wolk pebbles	SE) 40		/	<i>/</i> 1						-
_	1-31, W/25% v4-V	c 5 ù .		6W/							一
-	- And 10% 31/4.		00	SM							
8-	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	and a comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the	٠٠٠)	and the second	erengen de de			110000 10000			in <u>Mahadhay and a thair</u> Managanay Ne Sanasanan kanasanan Sanay (Sanay (Sanay Mara (Sanay )) a taon a sanas a sa <sub>nasan</sub> a a
-	8-12 SAND, gravel	ly, brn,	00000	sW							_
-	70% of NE, SA-SR:			)W							-
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### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT TLUSH MONITORING WELL INSTALLATION DIAGRAM \_\_\_\_Casing Cap Vent ? Yes No No Protective Pipe -------Lock? Yes 🗌 No 🖾 Yes No 🖎 Weep Hole? Yes 🔲 No 🛛 Steel N PVC \_\_\_\_\_Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches Ft. Concrete Pad Surveying Pin ? --DRILLING INFORMATION: Yes 🗌 No M DEPTH 1. Borehole Diameter= Inches. FROM TOP OF 2. Were Drilling Additives Used? Yes No 🕅 **BELOW** GRADE CASING Concrete Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes . No . Depth= to Feet. Cement/Bentonite Grout Mix 4. Borehole Diameter for Outer Casing\_\_\_\_ No $\Box$ Yes 🔼 WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to 12 Ft. 1. Type of Casing: PVC [3] Galvanized [] Teflon [] 94Lb. Bag Cement & 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple Glue-Other: Couple Other 3. Type of Well Screen: PVC M Galvanized 🗌 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing \_\_\_ Inches, Screen \_\_\_\_\_ Inches. Pellets Slurry 5. Slot Size of Screen: J. J.A. 6. Type of Screen Perforation: Factory Slotted Filter Pack Ft. Hacksaw | Drilled | Other Above Screen 7. Installed Protector Pipe w/Lock: Yes \( \) No \( \) WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other School FILTER PACK MATERIAL 2. Time Spent on Well Development ? <u>60 /=</u> Minutes/Hours Silica Sand 3. Approximate Water Volume Removed ? \_\_\_\_\_ Gallons Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque 5. Water Clarity After Development? Clear Other: Opaque [ Turbid [ 6. Did Water have Odcr? Yes No 8-12 Sand Size \_\_\_ If Yes, Describe 7. Did Water have any Color? Yes . No. Dense Phase Sampling Cup If Yes, Describe Bottom Plug WATER LEVEL INFORMATION: No 🗌 Yes 🏻 Water Level Summary (From Top of Casing) During Drilling 22 8 Ft. Date 3-4-06 Overdrilled Material Ft. Backfill Before Development 25 Ft. Date Grout Sand Caved Material After Development \_\_\_\_ Other: \_\_\_ Date Installed Drill Rig Type Driller/Firm COUP Col Kerr-McGee Well No. TC 127 Hydrologist Drill Crew

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## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM \_\_\_\_Casing Cap Vent? Yes No Protective Pipe ----\_\_\_Lock ? Yes 🗌 No 🗵 Yes No Weep Hole? Yes 🗌 No 🔯 Steel PVC \_\_\_\_\_Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches Concrete Pad Surveying Pin ? --No 🗵 DRILLING INFORMATION: Yes 🗌 DEPTH 1. Borehole Diameter= O Inches. FROM TOP OF BELOW 2. Were Drilling Additives Used? Yes No Concrete GRADE CASING Revert Bentonite Water Solid Auger Hollow Stem Auger 3. Was Outer Steel Casing Used? Yes No 🔝 Depth= to Feet. Cement/Bentonite Grout Mix 4. Borehole Diameter for Outer Casing \_\_\_\_\_Inches. No Yes 🕅 WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other \_\_\_ Powder 2. Type of Casing Joints: Screw-Couple Other: Couple Other \_\_\_ 3. Type of Well Screen: PVC 📝 Galvanized 🗌 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing A Inches, Screen Pellets Slurry Slurry 5. Slot Size of Screen: 2 220 6. Type of Screen Perforation: Factory Slotted Filter Pack Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes No \ WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_ SURGE BLOCK /AIR FILTER PACK MATERIAL 2. Time Spent on Well Development ? \_\_\_\_\_ Minutes/Hours Silica Sand 📝 3. Approximate Water Volume Removed ? 55 Gallons Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque 5. Water Clarity After Development? Clear Other: \_\_\_ Turbid | Opaque | B- 12-6. Did Water have Oder? Yes No 🔀 Sand Size \_\_ If Yes, Describe 7. Did Water have any Color? Yes No No Dense Phase Sampling Cup 1/2 Ft. If Yes , Describe Bottom Plug WATER LEVEL INFORMATION: No Yes 📳 Water Level Summary (From Top of Casing) Overdrilled Material During Drilling \_\_\_\_\_\_Ft. Date \_\_\_\_\_Ft. Ft. Backfill Before Development Zan Ft. Date \_\_\_\_\_ Grout Sand Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: Date Installed Drill Rig Type Driller/Firm Kerr-McGee Well No. 776 124 Hydrologist Drill Crew

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	Wasaw Table (OATI)		1	c	RAPHIC	OG LEG	END T	DATE DRILLED	PAGE
	<ul><li>✓ Water Table (24 Hour)</li><li>✓ Water Table (Time of Boring)</li></ul>				CLAY	DI FI		3-10	
	PID Photoionization Detection (ppm) NO. Identifies Sample by Number			i			l	DRILLING MET	10D 15 A
Z	TYPE Sample Collection Method						GANIC (PEAT)	DRILLED BY	
ATK	SPLIT- ALIGER	ROCK			SAND	S C	ANDY .AY		E. C.
EXPLANATION	BARREL AUGER	CORE		• • •	GRAVEL	C S	AYEY AND	LOGGED BY	> KRISH
EX	THIN- WALLED SAMPLER THE	NO RECOVER	RY	ŀ	SILTY CLAY			EXISTING GRAI	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of Sample			1	CLAYEY SILT			LOCATION OR	GRID COORDINATES
	REC. Actual Length of Recovered Sam	ple in Feet		LULN	JILI				

ASTM GEOLOGICAL DESCRIPTION CHECKLIST FOR FINE-GRAINED AND PARTLY ORGANIC SOILS	TYPICAL NAMES	SYMBOLS GROUP			۸۱ ۷
7. TYPICAL NAME: Sandy Silt Silty Clay Clayey Silt Sandy Clay Clayey Silt	Well-Graded Gravels and Gravel- Sand Mixtures, Little or No Fines	ем	/ELS		
Organic Silt Organic Clay 2. MAXIMUM PARTICLE SIZE 3. SIZE DISTRIBUTION	Poorly Graded Gravels and Gravel- Sand Mixtures, Little or No Fines	99	CLEAN GRAVELS	GRAVELS	0015
4. DRY STRENGTH: None, Very Low, Low, Medium, High, Very High	Silty Gravels, Gravel-Sand-Silt Mixtures	ем	H H ES		1
6. PLASTIC THREAD: Weak and Soft, Medium, Stiff, Very Stiff 7. PLASTICITY OF FINES: None, Low, Medium, High	Clayey Gravels, Gravel-Sand-Clay	29	GRAVELS WITH FINES		
8. COLOR: Use Munsell Notation, If Possible 9. ODOR: None, Earthy, Organic	Well-Graded Sands and Gravelly Sands, Little or No Fines	MS	DS	_	
10. MOISTURE CONTENT: Dry, Moist, Wet, Saturated 11. CONSISTENCY: Soft, Firm (Medium), Stiff, Very Stiff, Hard	Poorly Graded Sands and Gravelly Sands, Little or No Fines	q2	CLEAN	DS	
12. STRUCTURE: Stratified, Laminated, Fissured, Slickensided, Blocky Lensed, Homogeneous 13. CEMENIATION: Work, Stropp	Silty Sands, Sand-Silt Mixtures	WS	SANDS WITH FINES	SANDS	
13. CEMENTATION: Weak, Strong	Clayey Sands, Sand-Clay Mixtures	SC	F ≪ ≥		
ASTM GEOLOGICAL DESCRIPTION CHECKLIST FOR COARSE GRAINED SOILS	Inorganic Silts, Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands	1W	>50%	^ ^ ^ ~	
TYPICAL NAME: Boulders, Cobbles, Gravel, Sand (Add Descriptive Adiptives For Minor Constituents)     GRADUATION: Well Graded, Poorly Graded	Inorganic Clays of Low to Medium Plasticity, Gravelly Clay, Sandy Clays, Silty Clays, Lean Clays	13	LIQUID LIMIT >50%	76 75 7	00160
3. MAXIMUM PARTICLE SIZE 4. SIZE DISTRIBUTION: Percent Gravel, Sand and Fines	Organic Silts and Organic Silty Clays of Low Plasticity	10	<u> </u>	2	NE C
5. GRAIN SHAPE: Angular, Subangular, Subrounded, Rounded 6. MINERALOGY: Rock Type For Gravel, Predominant Mineral in Sand 7. COLOR: Use Mirroll Marking 1: Passible	Inorganic Silts, Micaceous or Diatomaceous Fine Sands or Silts, Elastic Silts	HW	<50%	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FINE-ORALIVED JOILS
7. COLOR: Use Munsell Notation, if Possible 8. ODOR: None, Earthy, Organic 9 MOISTURE CONTENT: Dry Moist Wet Saturated	Inorganic Clays of High Plasticity,	СН	DLIMI	2	7114
10. NATURAL DENSITY: Loose Dense	Organic Clays of Medium to High	но	LIONI	21112	
13. LOCAL OR GEOLOGIC NAME	Peat, Muck and Other Highly Organic Soils	Tq	ILS ANIC HLY	10S 191 1911	IC H
9. MOISTURE CONTENT: Dry, Moist, Wet, Saturated 10. NATURRI DENSITY: Loose Dense 11. STRUCTURE: Stratified, Lensed, Nonstratified 12. CEMENTATION: Weak, Strong	Fat Clays Organic Clays of Medium to High Plasticity Peat, Muck and Other Highly	НО	STING LIMIT <50%		
	•		SET	.01	Ν

### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT TLUSH MONITORING WELL INSTALLATION DIAGRAM ---- Casing Cap Vent? Yes No M Protective Pipe ------ Lock ? Yes No Yes No No .Weep Hole? Yes 🗌 🛮 No 🖾 Steel PVC Ft. Ft. x \_\_\_\_\_Ft. x \_\_\_\_ Inches Surveying Pin ? --Concrete Pad Yes 🗍 No 🗵 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= Inches. FROM **BELOW** TOP OF 2. Were Drilling Additives Used? Yes No.K. Concrete **GRADE** CASING Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🗹 3. Was Outer Steel Casing Used? Yes . No . Depth= to Feet. Cement/Bentonite Grout Mix Yes 🔀 No $\square$ 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 94Lb. Bag Cement & Ft. 1. Type of Casing: PVC 🕡 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple 📝 Couple Other \_\_\_ 3. Type of Well Screen: PVC Galvanized Stainless Teflon Other\_ 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing A Inches, Screen Pellets Slurry 5. Slot Size of Screen: 2.224 Filter Pack 6. Type of Screen Perforation: Factory Slotted Ft. Above Screen Hacksaw Drilled Other 7. Installed Protector Pipe w/Lock: Yes . No . WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGERSCHEER & AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand 🕅 \_\_\_\_\_\_ Minutes/Hours Ft. 3. Approximate Water Volume Removed ? $\underline{55}$ Gallons Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque 5. Water Clarity After Development? Clear M Turbid | Opaque 🗍 Sand Size \_3 - 12 6. Did Water have Odcr? Yes No 2 33.7 If Yes, Describe 7. Did Water have any Color? Yes No No Dense Phase Sampling Cup If Yes, Describe Bottom Plug Yes 🕅 No 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 23. Ft. Date 3-10-04 Ft. i Backfill Grout Sand Before Development 23 Ft. Date 3 Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: Drill Rig Type CME 95 Date Installed Driller/Firm Kerr-McGee Well No. PC 123 FD KRISTI Hydrologist Drill Crew

		KM SUBSIDIARY KMCLL			HENDERSON, NV		BORING NUMBER PC 126		
DEPT	TH .	E C	UNIFIED SOIL FIELD	BLOWS PER	PID	SOIL SAMPLE			REMARKS OR
FEE:		GRA	FIELD CLASS.	FOOT	(ppm)	NO.	DEPT	H REC.	FIELD OBSERVATIONS
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					SILT HIGHLY ORGANIC (PEAT)		HSA		
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ANA	SPLIT- BARREL AUGER	ROCK CORE						LOGGED BY	. 2
EXPLANATION	THIN. CONTINUOUS	No		1	GRAVEL	<u>⊠</u> s	CLAYEY SAND	EXISTING GRA	DE ELEVATION (FT. AMSL)
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FOR FINE-GRAINED AND PARTLY ORGANIC SOILS	TYPICAL NAMES	SYMBOLS GROUP	OK		
7. TYPICAL NAME: Sandy Silt Silt Silt Silt Clay Clayey Silt Sandy Clay Clayey Silt Sandy Clay	Well-Graded Gravels and Gravel- Sand Mixtures, Little or No Fines	СW	ĘLS		
Organic Silt Organic Clay 2. MAXIMUM PARTICLE SIZE 3. SIZE DISTRIBUTION	Poorly Graded Gravels and Gravel- Sand Mixtures, Little or No Fines	GР	CLEAN GRAVELS	GRAVELS	SOILS
4. DRY STRENGTH: None, Very Low, Medium, High, Very High 5. DILATENCY: None, Slow, Rapid	Silty Gravels, Gravel-Sand-Silt Mixtures	ем	ES LH VETS		1
6. PLASTIC THREAD: Weak and Soft, Medium, Stiff, Very Stiff 7. PLASTICITY OF FINES: None, Low, Medium, High	Clayey Gravels, Gravel-Sand-Clay	29	GRAVELS WITH FINES		COAKSE-GRAINED
8. COLOR: Use Munsell Notation, If Possible 9. ODOR: None, Earthy, Organic	Well-Graded Sands and Gravelly Sands, Little or No Fines	MS	CLEAN SANDS		C
10. MOISTURE CONTENT: Dry, Moist, Wet, Saturated 11. CONSISTENCY: Soft, Firm (Medium), Stiff, Very Stiff, Hard	Poorly Graded Sands and Gravelly Sands, Little or No Fines	ЯS	CLE	Sg	COA
12. STRUCTURE: Stratified, Laminated, Fissured, Slickensided, Blocky, Lensed, Homogeneous	Silty Sands, Sand-Silt Mixtures	WS	SANDS WITH FINES	SANDS	
13. CEMENTATION: Weak, Strong	Clayey Sands, Sand-Clay Mixtures	ЭS	∓<≱		
ASTM GEOLOGICAL DESCRIPTION CHECKLIST FOR COARSE GRAINED SOILS	Inorganic Silts, Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands	1W	>50%		
1. TYPICAL NAME: Boulders, Cobbles, Gravel, Sand (Add Descriptive Adjectives For Minor Constituents)     2. GRADUATION: Well Graded, Poorly Graded	Inorganic Clays of Low to Medium Plasticity, Gravelly Clay, Sandy Clays, Silty Clays, Lean Clays	13	LIQUID LIMIT >50%	לה אָלָה האָלָה	SOILS
3. MAXIMUM PARTICLE SIZE 4. SIZE DISTRIBUTION: Percent Gravel, Sand and Fines	Organic Silts and Organic Silty Clays of Low Plasticity	10	FIDE	2	NED
5. GRAIN SHAPE: Angular, Subangular, Subrounded, Rounded 6. MINERALOGY: Rock Type For Gravel, Predominant Minerals in Sand	Inorganic Silts, Micaceous or Silts, Elastic Silts	HW	<50%	) } }	FINE-GRAINED SOILS
7. COLOR: Use Munsell Notation, if Possible 8. ODOR: None, Earthy, Organic 9. MOISTLIBE CONTENT: Dry, Moist Wet Saturated	Inorganic Clays of High Plasticity, Fat Clays	СН	LIQUID LIMIT <50%	, ,	TZ
9. MOISTURE CONTENT: Dry, Moist, Wet, Saturated 10. NATURAL DENSITY: Loose Dense	Organic Clays of Medium to High	НО	LIDUI	51.75	
11. STRUCTURE: Stratified, Lensed, Nonstratified 12. CEMENTATION: Weak, Strong	Plasticity Peat, Muck and Other Highly Organic Soils	Tq	IIS VAIC HIX		OI H
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#### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FLUSH MONITORING WELL INSTALLATION DIAGRAM MOUNT ---- Casing Cap Vent ? Yes No 📈 Protective Pipe -\_\_\_\_Lock ? Yes \ No K Yes 🗍 No K \_Weep Hole? Yes ☐ No 😿 Steel PVC Ft. Ft. x \_\_\_\_ Ft. x \_\_\_\_Inches Concrete Pad Surveying Pin? Yes 🗌 No X DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 8 Inches. FROM TOP OF CASING **BELOW** 2. Were Drilling Additives Used? Yes No X Ft. Concrete GRADE Revert Bentonite Water Solid Auger 🔲 🛮 Hollow Stem Auger 🕱 3. Was Outer Steel Casing Used? Yes Depth=\_\_\_\_to\_\_\_Feet. Cement/Bentonite Grout Mix 4. Borehole Diameter for Outer Casing Yes 🔀 No $\square$ WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to √& Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple X Glue-Other: \_\_ Other \_\_ Couple 🗌 3. Type of Well Screen: PVC 🔀 Galvanized 🗌 15 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing 2 Inches, Screen 2 Inches. Pellets 175 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted Filter Pack Ft. Hacksaw | Drilled | Other Above Screen 7. Installed Protector Pipe w/Lock: Yes 🗌 No 😿 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGE 8LDCK and AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development? 60 / Minutes/Hours Silica Sand 3. Approximate Water Volume Removed ? 55 Gallons Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid A Opaque 5. Water Clarity After Development? Clear X Other: \_\_\_ Opaque [ Sand Size 8-12 6. Did Water have Odcr? Yes No X 34. If Yes, Describe 7. Did Water have any Color? Yes . No 🗵 Dense Phase Sampling Cup 2 Ft. If Yes, Describe Bottom Plug 34 WATER LEVEL INFORMATION: No $\square$ Yes 🛛 Water Level Summary (From Top of Casing) Overdrilled Material 104 During Drilling \_\_\_\_\_ Ft. Date 3/ Backfill Before Development 23.02 Ft. Date 3/ Grout Sand Caved Material After Development \_\_\_\_\_ Ft. Date 3/ Other: Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed Kerr-McGee Well No. PC 126 Hydrologist Drill Crew ART

KERR-McGEE CORPORATION Hydrology Dept. Engineering Services				LOCATION HEND	ERJON	), NV	BORING	BORING PC 127			
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#### KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FLUSH MONITORING WELL INSTALLATION DIAGRAM MOUNT \_--- Casing Cap Vent ? Yes No 🛛 Protective Pipe --\_\_\_\_Lock ? Yes 🗌 No 🛭 No K Yes 🗌 Weep Hole? Yes 🗌 No 🛭 Steel PVC Ft. Concrete Pad Ft. x Ft. x Inches Surveying Pin? -DRILLING INFORMATION: No 🛛 Yes 🗍 DEPTH 1. Borehole Diameter= 8 Inches. FROM TOP OF CASING BELOW 2. Were Drilling Additives Used? Yes No X Ft. Concrete GRADE Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🗹 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix. 4. Borehole Diameter for Outer Casing\_\_\_ Yes 🔀 No $\square$ WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to 94Lb. Bag Cement & Ft. 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple X Glue-Other: Couple Other 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Inches, Screen 2 Inches. Casing 2 12 Pellets Slurry 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted Filter Pack Ft. Hacksaw 🔲 Drilled 🗌 Other\_ Above Screen 7. Installed Protector Pipe w/Lock: Yes 🗌 No 🕼 WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGE SLOCK and AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand 60 E Minutes/Hours 3. Approximate Water Volume Removed ? 55 Gallons Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque 5. Water Clarity After Development? Clear 🗵 Other: Opaque [ Turbid [ 8-12 6. Did Water have Oder? Yes . No X Sand Size \_ 35 If Yes, Describe \_\_ 7. Did Water have any Color? Yes . No 🗹 Dense Phase Sampling Cup If Yes , Describe Bottom Plug WATER LEVEL INFORMATION: No 🖂 Yes 🛛 Water Level Summary (From Top of Casing) During Drilling \_\_\_\_\_ Ft. Date 3/10 /04 Overdrilled Material Backfill Ft. Before Development\_\_\_\_ Grout Sand Caved Material After Development 18.78 Ft. Date 3/ Other: Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed 3/ Kern-McGee ED KRIJH Well No. PC 27 Hydrologist Drill Crew ART

SOIL BORING LOG KM-5655-A BORING NUMBER PC 128 KM SUBSIDIARY KERR-McGEE CORPORATION HENDERSON, NV KMCLLC Hydrology Dept. Engineering Services UNIFIED BLOWS PER FIELD FOOT SOIL SAMPLE DEPTH REMARKS OR FIELD OBSERVATIONS PID LITHOLOGIC DESCRIPTION IN FEET (ppm) DEPTH REC. CLASS. O-1 ASPKALT & FILL 1-13 GRAVEL, SAUY silly , orn , 60% volc peoples to 3/ m/20% vt-GP/ GM 10. 13-26 SAND ogravely w/sil+, 50% yf-vc sa w/30% per gravel to 1/2 in and 20% sil+ PAMP@15 25-26 Calichifired 26-32 SAND, grandle Wes " and very sity. Tern, 50% marcasa w/ 200/ per gravel and 30% site 32-35 TO CLAY, 511-4, MC @ 32 It brn to It red brn w/ 30/2 sil+ DATE DRILLED GRAPHIC LOG LEGEND Y Water Table (24 Hour) 3/11/04 of DEBRIS FILL CLAY DRILLING METHOD Water Table (Time of Boring) PID Photoionization Detection (ppm) HSA HIGHLY ORGANIC (PEAT) Identifies Sample by Number Sample Collection Method SILT TYPE DRILLED BY SANDY CLAY SAND WDC LOGGED BY

EXPLANATION SPLIT-BARREL CLAYEY SAND GRAVEL Ed Krish EXISTING GRADE ELEVATION (FT. AMSL) THIN-CONTINUOUS NO RECOVERY SILTY WALLED TUBE SAMPLER CLAYEY LOCATION OR GRID COORDINATES DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FI-USH MONITORING WELL INSTALLATION DIAGRAM \_\_\_\_Casing Cap Vent ? Yes No 🛛 MOUNT Protective Pipe --\_\_\_\_Lock ? Yes 🗌 No 🐰 Yes 🗍 No K Weep Hole? Yes 🗌 No 🗹 Steel PVC Concrete Pad Ft. x Ft. x Inches Surveying Pin? -Yes 🗍 No X DRILLING INFORMATION: 1. Borehole Diameter= 8 Inches. FROM **BELOW** TOP OF 2. Were Drilling Additives Used? Yes No CASING Concrete GRADE Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🕱 3. Was Outer Steel Casing Used? Yes . No 🛛 Depth= to Feet. Cement/Bentonite Grout Mix. 4. Borehole Diameter for Outer Casing\_\_\_ Yes 🛭 No $\square$ WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to 94Lb. Bag Cement & Ft. 1. Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple X Glue-Other: Couple Other \_ 3. Type of Well Screen: PVC 📈 Galvanized 🗌 10 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal ~2.5 Ft. Casing 2 Inches, Screen 2 Inches. 12.5 Pellets Slurry 5. Slot Size of Screen: 0.020 6. Type of Screen Perforation: Factory Slotted 🗶 Filter Pack . ₹ Ft. Hacksaw Drilled Other\_ Above Screen 7. Installed Protector Pipe w/Lock: Yes 🗌 No 🐼 WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGE SLOCK and AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand 60 F Minutes/Hours 3. Approximate Water Volume Removed ? 55 Gallons 2 5 Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque 5. Water Clarity After Development? Clear 🕱 Other: Opaque [ Turbid | Sand Size 8-12 6. Did Water have Odcr? Yes No X If Yes, Describe 7. Did Water have any Color? Yes . No . Dense Phase Sampling Cup If Yes , Describe Bottom Plug WATER LEVEL INFORMATION: No 🗌 Yes 🔀 Water Level Summary (From Top of Casing) Overdrilled Material During Drilling Ft. Date 3/1 Ft. Backfill Before Development 19.2 Ft. Date 3/ Grout 🗌 Sand 🗍 After Development 18.75 Ft. Date 3/12 Caved Material Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed Kern-McGee Well No. PC Z8 Hydrologist Drill Crew ART

SOIL BORING LOG KM-5655-A KM SUBSIDIARY BORING NUMBER PC 129 KERR-McGEE CORPORATION HENDERSON, NV KMCLLC Hydrology Dept. Engineering Services UNIFIED SOIL PER FOOT CLASS. **SOIL SAMPLE** REMARKS OR FIELD OBSERVATIONS **DEPTH** PID LITHOLOGIC DESCRIPTION IN FEET (ppm) DEPTH 1-16 GRAVEL, SALVI brn, 50% voic pebblest GP/ GM 16-38 SAND, growelly and silty, brn. 50% mvc sand w/25% pen gravel to 3/4" and 25% SM

35 30				WE T
EXPLANATION	Water Table (24 Hour)  ✓ Water Table (Time of Boring)  PID Photoionization Detection (ppm)  NO. Identifies Sample by Number  TYPE Sample Collection Method  SPLIT. BARREL  AUGER  CONTINUOUS SAMPLER  DEPTH Depth Top and Bottom of Sample  REC. Actual Length of Recovered Sample in Feet	CLAY  SILT  SAND  GRAVEL  SILTY  CLAY  CLAY	DE LEGEND  DEBRIS FILL ORGANIC (PEAT)  SANDY CLAY SAND  CLAYEY SAND	DRILLED PAGE  3/11/04 PAGE  OF OF OF OF OF OF OF OF OF OF OF OF OF O

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FLUSH MONITORING WELL INSTALLATION DIAGRAM \_\_\_\_Casing Cap Vent ? Yes No 🛛 MOUNT Protective Pipe --\_\_\_\_Lock ? Yes 🗍 No 🕅 No K Yes 🗍 Weep Hole? Yes 🗌 No 🛭 Steel PVC Concrete Pad Ft. x Ft. x Inches Surveying Pin? -Yes 🗍 No 🔯 DRILLING INFORMATION: 1. Borehole Diameter= 8 Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No CASING Concrete GRADE Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🛛 3. Was Outer Steel Casing Used? Yes No 🛛 Depth= to Feet. Cement/Bentonite Grout Mix. 4. Borehole Diameter for Outer Casing\_\_\_ Yes 🛛 No $\square$ WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to 94Lb. Bag Cement & ু Ft.∖ 1. Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Stainless Other\_ Powder 2. Type of Casing Joints: Screw-Couple X Glue-Other: Couple Other \_ 3. Type of Well Screen: PVC 🔀 Galvanized 🗌 Stainless Teflon Other\_ 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing 2 Inches, Screen 2 Inches. Pellets Slurry 1 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted 🕱 Filter Pack 8 Ft. Hacksaw Drilled Dother\_ Above Screen 7. Installed Protector Pipe w/Lock: Yes [] No [2] WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGE SLOCK and AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand 60 E Minutes/Hours 3. Approximate Water Volume Removed ? 55 Gallons < Ft. ⊓ Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid A Opaque 5. Water Clarity After Development? Clear 🕱 Other: Opaque [ Turbid | Sand Size 8-12 6. Did Water have Oder? Yes No 🗹 37.8 If Yes, Describe 7. Did Water have any Color? Yes No 🛛 No Dense Phase Sampling Cup If Yes , Describe Bottom Plug 38 WATER LEVEL INFORMATION: No 🗌 Yes 🛛 Water Level Summary (From Top of Casing) During Drilling \_\_\_\_\_Ft. Date 3/11/04 Overdrilled Material p Ft. Backfill \_\_\_ Ft. Date 3/ Before Development\_\_\_ Grout Sand Caved Material After Development \_\_\_\_\_\_Ft. Date 3/12 Other: Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed Well No. PC ZO Hydrologist Drill Crew ART

SOIL BORING LOG KM-5655-A BORING NUMBER PC 130 KM SUBSIDIARY KERR-McGEE CORPORATION HENDERSON, NV Hydrology Dept. Engineering Services KMCLLC UNIFIED BLOWS PER FIELD FOOT SOIL SAMPLE REMARKS OR FIELD OBSERVATIONS **DEPTH** PID PER FOOT LITHOLOGIC DESCRIPTION IN FEET (ppm) DEPTH CLASS. GM 15-37 SAND, gravelly and silty, brn. 60% DAMPEIS m-vc sd w/20% pea gravel to 1/4" and 20% SM 30-402 gravel 37-40 GRAVEL, havd WET calichified 3/11 /04 GRAPHIC LOG LEGEND \_\_\_\_\_ Water Table (24 Hour) of 2 DEBRIS FILL CLAY Water Table (Time of Boring) Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method V PID HSA HIGHLY ORGANIC (PEAT) NO. TYPE SILT DRILLED BY EXPLANATION SANDY CLAY SAND WDC SPLIT-LOGGED BY CLAYEY SAND GRAVEL Ed Krijk EXISTING GRADE ELEVATION (FT. AMSL) THIN-NO RECOVERY SILTY CONTINUOUS

CLAYEY

LOCATION OR GRID COORDINATES

SAMPLER

DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet

TUBE

SOIL BORING LOG KM-5655-A BORING PC 130 KM SUBSIDIARY KERR-McGEE CORPORATION
Hydrology Dept. Engineering Services HENDERSON, NV KMCLLC UNIFIED BLOWS PER FIELD FOOT **SOIL SAMPLE** DEPTH REMARKS OR FIELD OBSERVATIONS PID PER FOOT IN FEET LITHOLOGIC DESCRIPTION (ppm) DEPTH REC. CLASS SILT BOX BOX 10/30% V+3 5h and V. MIMOR (\$10%) pea wrave ! W 48-50 CLAY, 51 Hy, gran gry to their what wi DATE DRILLED GRAPHIC LOG LEGEND 3/11/04 <u>Y</u> Water Table (24 Hour) Z of Z CLAY DEBRIS FILL Water Table (Time of Boring) Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method V PID HSA HIGHLY ORGANIC (PEAT) SILT DRILLED BY **TYPE** EXPLANATION SANDY CLAY SAND WDC SPLIT-LOGGED BY AUGER GRAVEL CLAYEY SAND Ed Krish EXISTING GRADE ELEVATION (FT. AMSL) THIN-SILTY CLAY CONTINUOUS NO RECOVERY WALLED TUBE SAMPLER CLAYEY LOCATION OR GRID COORDINATES

DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FI-USH MONITORING WELL INSTALLATION DIAGRAM \_---Casing Cap Vent? Yes 🗌 No 🛛 MOUNT Protective Pipe --\_\_\_\_Lock ? Yes 🗌 No 🛭 No K Yes 🗍 Weep Hole? Yes No W Steel PVC Concrete Pad Ft. x \_\_\_\_\_ Ft. x \_\_\_\_ Inches Surveying Pin? -DRILLING INFORMATION: Yes 🗍 No X DEPTH 1. Borehole Diameter= 8 Inches. FROM BELOW 2. Were Drilling Additives Used? Yes No X TOP OF CASING GRADE Concrete Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🕱 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix. 4. Borehole Diameter for Outer Casing Yes 🛛 No WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple X Glue-Other: Couple Other\_ 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other\_ 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing 2 Inches, Screen 2 Inches. Pellets Slurry 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted Filter Pack ₿ Ft. Hacksaw Drilled Dother\_ Above Screen 7. Installed Protector Pipe w/Lock: Yes [ No ] WELL DEVELOPMENT INFORMATION: I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other\_\_\_\_\_\_\_Other\_\_\_\_\_\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? 60 F Minutes/Hours Silica Sand 3. Approximate Water Volume Removed ? 55 Gallons Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid A Opaque 5. Water Clarity After Development? Clear X Other: Opaque [ Turbid T 8-12 6. Did Water have Oder? Yes 🗌 No 🔀 If Yes, Describe \_\_\_ 7. Did Water have any Color? Yes No 🗷 Dense Phase Sampling Cup If Yes , Describe Bottom Plug 50 WATER LEVEL INFORMATION: No 🗌 Yes 🛛 Water Level Summary (From Top of Casing) Overdrilled Material 104 During Drilling Ft. Date 3/ Ft. Backfill \_\_\_ Ft. Date 3/ Before Development\_\_\_\_ Grout Sand After Development 19.30 Ft. Date 3/ Caved Material Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed Kern-McGee Well No. PC 130 Hydrologist Drill Crew ART

	KERR-McGEE CORPORATION ology Dept. Engineering Services	KM SUBSIDIARY		LOCATION HENDERSON, NV			), NV	BORING	9 PC 131
DEPTH		<del></del>	UNIFIED	BLOWS			OIL SAM	PLE	DEMARKS OF
IN FEET	LITHOLOGIC DESCRIPTION	S SRAPHIC LOG	SOIL FIELD CLASS.	PER FOOT	PID (ppm)	O. TYPE			REMARKS OR FIELD OBSERVATIONS
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36	33-36 GRAVEL, Se 35-36 Carichifie 36-40 SILT, SA	c. brn III	ever experience	radio su rati car	BELGINGEN STATES SE	na, i razingi, tettini i militari militari	trace contract contract	, costs a mission at ments of	WET
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	▼ Water Table (24 Hour)		y Gai Gai		GRAPHIC	LOG LEG	END	3/12	
	∇ Water Table (Time of Boring)	(g)			CLAY	DE FIL	BRIS L	DRILLING MET	/ '
	PID Photoionization Detection () NO. Identifies Sample by Numb TYPE Sample Collection Method				SILT	HIG OR	HLY GANIC (PEAT)	DRILLED BY	ISA
ATIO	CRUZ	T POCK			SAND	SA CI	ANDY AY	WD	C
EXPLANATION	SPLIT- BARREL AUGER	ROCK CORE		1		CI SA	LAYEY	E 4	Krish
EX	THIN- WALLED CONTINUOU SAMPLER	S NO RECOV	ERY	<b>E</b>	SILTY				DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of REC. Actual Length of Recovered	Sample d Sample in Fee	t .		CLAYEY SILT			LOCATION OR	GRID COORDINATES

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FILUSH MONITORING WELL INSTALLATION DIAGRAM \_\_--Casing Cap Vent ? Yes 🗌 No 🛛 MOUNT Protective Pipe ---\_\_\_\_Lock ? Yes 🗍 No 🕅 No K Yes 🗌 Weep Hole? Yes 🗌 No 😿 Steel PVC Concrete Pad Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches Surveying Pin? -DRILLING INFORMATION: Yes 🗍 No 🛛 1. Borehole Diameter= 8 FROM BELOW 2. Were Drilling Additives Used? Yes No X TOP OF CASING Concrete GRADE Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🕱 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix. 4. Borehole Diameter for Outer Casing No 🗌 Yes 🛛 WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple X Glue-Other: Couple Other \_ 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing 2 Inches, Screen 2 Inches. Pellets X Slurry 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted 💹 Filter Pack Ft. Hacksaw Drilled Dother\_ Above Screen 7. Installed Protector Pipe w/Lock: Yes 🗌 No 😿 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGE 8LOCK and AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development? 60 F Minutes/Hours Silica Sand 3. Approximate Water Volume Removed ? 55 Gallons 30 Ft.{ Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid A Opaque 5. Water Clarity After Development? Clear 🛣 Other: Opaque [ Turbid | 8-12 6. Did Water have Odcr? Yes 🗌 No 😿 Sand Size 39.8 If Yes, Describe \_\_ 7. Did Water have any Color? Yes . No 🗹 Dense Phase Sampling Cup Z Ft. If Yes , Describe Bottom Plug WATER LEVEL INFORMATION: No 🗍 Yes 🛛 Water Level Summary (From Top of Casing) During Drilling \_\_\_\_\_ Ft. Date 3/02/04 Overdrilled Material Ft. Backfill Before Development N. 97 Ft. Date 3/15/ Grout Sand After Development \_\_\_\_\_\_\_\_ Ft. Date 3/ Caved Material Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed Kerr-McGee Well No. PC 13 Hydrologist Drill Crew ART

SOIL BORING LOG KM-5655-A

	KERR-McGEE CORPORATION ology Dept. Engineering Services	KM SUBSIDIAR		C		LOCATION HEND	ERJOI	J. NV	BORING	R PC 132
DEPTI			ا ع	JNIFIED SOIL	BLOWS	PID		SOIL SAM	PLE	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTION	DN	SKAPHIC 106	FIELD CLASS.	PER FOOT	(ppm)	80.	DEPTH	REC.	FIELD OBSERVATIONS
9 -	0- 10 AFRET S FILE  1-9 GRAVEL  byn, 60% voic per  40 1/2 W/ 402 Y  SA.  9-27 SRND, 9Y	ables of all							and a state of a state of	DAM PES
20-	and more son is  /a-vi sh of zelo a  grand to 1/4" and  solt	>4.5mg		SM						
25°.	- 27-29 Collinition - grand lugger  29-32 Steat, say minor sm. peagravel, silt, 30% vfasa, 10: - 32-40 PC CLAY, Sh	W    6'0 %  20 grane		ML						WET -
	■ Water Table (24 Hour)  Water Table (Time of Borin Photoionization Detection (	ng) ppm)	Control control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th			GRAPHIC		DEBRIS FILL	DATE DRILLED  3/5  DRILLING MET	PAGE Of HOD
EXPLANATION	NO. Identifies Sample by Numb TYPE Sample Collection Method  SPLIT BARREL  THIN WALLED TUBE  DEPTH Depth Top and Bottom of REC. Actual Length of Recovere	RC CC	COVE	RY		SILT  SAND  GRAVEL  SILTY CLAY  SILTY SILTY		IIGHLY PRGANIC (PEAT) SANDY CLAY CLAY SAND	DRILLED BY  LOGGED BY  E d  EXISTING GRA	(

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FLUSH MONITORING WELL INSTALLATION DIAGRAM MOUNT .\_\_\_ Casing Cap Vent ? Yes 🗌 No 🛛 Protective Pipe --\_\_\_\_Lock ? Yes 🗌 No 🕅 No K Yes \_Weep Hole? Yes ☐ No 😿 Steel PVC Ft. Ft. x Ft. x Inches Concrete Pad Surveying Pin? -DRILLING INFORMATION: Yes 🗍 No 🛛 1. Borehole Diameter= 8 Inches. FROM 2. Were Drilling Additives Used? Yes No 🗹 **BELOW** TOP OF Ft. CASING GRADE Concrete Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 🛛 3. Was Outer Steel Casing Used? Yes Depth=\_\_\_\_to\_\_\_Feet. Cement/Bentonite Grout Mix. 4. Borehole Diameter for Outer Casing Yes 🛛 No $\Box$ WELL CONSTRUCTION INFORMATION: 5.5 Gallons Water to 94Lb. Bag Cement & Ft. 1. Type of Casing: PVC 🔀 Galvanized 🗌 Teflon 🗌 3-5 Lb. Bentonite Stainless Other Powder 2. Type of Casing Joints: Screw-Couple W Glue-Other: Couple Other 3. Type of Well Screen: PVC 📈 Galvanized 🗌 Stainless Teflon Other\_ 4. Diameter of Casing and Well Screen: Bentonite Seal Ft. Casing 2 Inches, Screen 2 Inches. Pellets Slurry 0.020 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted Filter Pack Ft. Hacksaw Drilled Other Above Screen 7. Installed Protector Pipe w/Lock: Yes 🗌 No 🐼 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other SURGE BLOCK and AIR LIFT FILTER PACK MATERIAL 2. Time Spent on Well Development ? 60 F Minutes/Hours Silica Sand 3. Approximate Water Volume Removed ? 55 Gallons Ft. Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid X Opaque 5. Water Clarity After Development? Clear X Other: Opaque [ 8-12 6. Did Water have Oder? Yes 🗌 No 🔀 Sand Size \_\_ If Yes, Describe 7. Did Water have any Color? Yes No 🗵 Dense Phase Sampling Cup 2 Ft. If Yes , Describe Bottom Plug WATER LEVEL INFORMATION: Yes 🛛 No 🗍 Water Level Summary (From Top of Casing) Overdrilled Material During Drilling \_\_\_\_\_ Ft. Date 3/15 Ft. Backfill 104 Before Development\_\_\_\_ Grout Sand After Development 10-26 Ft. Date 3/ Caved Material Other: Driller/Firm GEO. GUZMAN / WDC Drill Rig Type CME 95 Date Installed Kern-McGee ED KRIJH Well No. PC 32 Hydrologist Drill Crew ART

# Recovery Wells

KE	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA		<u> </u>	LOCATION HENDERSON			3 NV	BORIN	G PC-55	
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	NO.	SO TYPE	IL SAMPL	REC.	REMARKS OR FIELD OBSERVATIONS
5	SILTY SAND BRA ROBRADED TO WELL GRADED TO	Zavec	100000000000000000000000000000000000000								12" HOLE -
20-   25- 	COBINES 19-21'  CLAYEY SIAND WI  GRAVEL FIRM WE	su Et	000000000000000000000000000000000000000								DRIUS HARD
35-	SILTY SAND W/ 99 BRN-DK BRN WELL GRADED	VAVEL WET	61.10.10.10.10.10								
	Water Table (Time of Boring Photoionization Detection (p) Identifies Sample by Numbe	pm) RCCC NRE	COVE	₹Y		RAPHIC I CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		DEBR FILL HIGHLY	IC (PEAT)  DRI  DY  LOC  EY  EY  DETI	LLING METH LLED BY  WES  GGED BY  STING GRA	1 of 5

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  LUC-UC				1	LOCATION HEND	DERSON NO		NV	BORIN NUMB	G PC-55
DEPTH IN	LITHOLOGIC DESCRIPTION	N S	GKAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			IL SAM	PLE	REMARKS OR
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_											PLATE IN BIT
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•											OF AUGER -
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PI	D Photoionization Detection (p	pm)			l .			FILL HIGHLY		DRILLING METI 1K1	HOD
						SILT	$\simeq$	ORGAN	IIC (PEAT)	DRILLED BY	`
EXPLANATION	SPLIT-	ROC				SAND		SAN		WEB	ER
<u> </u>    <u> </u>	BARREL	COR	RE			GRAVEL		CLAY SAN	rey   L	OGGED BY	AWFORD
Ä	THIN- WALLED TIME SAMPLER	NO	OVER	v					1	•	DE ELEVATION (FT. AMSL)
5.	1082	لاا	OVER		ı				<sub>.</sub>	OCATION OF	GRID COORDINATES
	EPTH Depth Top and Bottom of S EC. Actual Length of Recovered		eet		L RITH	CLAYEY SILT	Ш		[ˈ	LOCATION OR	GRID COURDINATES

FLUSH	KERR	-McGEE CORP	PORATION
man 1		ROLOGY DEPA	RTMENT LATION DIAGRAM
Protective Pipe /	mourroning		
Yes No		Casing Cap \ Lock ? Yes	Vent? Yes No No
Steel TVC			Yes No No
Surveying Pin?	Ft.		dFt. xFt. xInches
Yes No No	1		DRILLING INFORMATION:
	<u> </u>	DEPTH FROM	1. Borehole Diameter= \ \ \tag{1} Inches.
Concrete	Ft.	BELOW TOP OF	2. Were Drilling Additives Used? Yes No
		GRADE CASING	Revert Bentonite Water
			_ Solid Auger   Hollow Stem Auger
	1 1		3. Was Outer Steel Casing Used? Yes 🗌 No 🖵
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes No Sollons Water to			4. Borehole Diameter for Outer CasingInches.
94Lb. Bag Cement &	Ft.		WELL CONSTRUCTION INFORMATION:
3-5 Lb. Bentonite Powder		}	I.Type of Casing: PVC  Galvanized  Teflon  Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple Glue-
			Couple Other
	1	} —— ——	3. Type of Well Screen: PVC Galvanized
Bentonite Seal	፟		Stainless Teflon Other  4. Diameter of Casing and Well Screen:
Pellets Slurry	–← <sup>Ft</sup> · 📓		Į.
Olding			Casing Inches, Screen Inches.  - 5. Slot Size of Screen:
Filter Pack	3 Ft.	}	6. Type of Screen Perforation: Factory Slotted
Above Screen _			Hacksaw 🗌 Drilled 🗌 Other
		{_{14}	7. Installed Protector Pipe w/Lock: Yes No
		1	WELL DEVELOPMENT INFORMATION:
			I. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL		}	2. Time Spent on Well Development ?
Silica Sand 🗌		{	// Minutes/Hours
Washed Sand	40 Ft = :	and the second	3. Approximate Water Volume Removed ? 100 Gallons
Pea Gravel		}	4. Water Clarity Before Development? Clear
Other:			Turbid Opaque 🖳
			5. Water Clarity After Development ? Clear  Turbid  Opaque
Sand Size 8-12		100	6. Did Water have Oder? Yes No 🗗
	<b></b>	1-34	— If Yes, Describe
Dense Phase Sampling Cu	OG Ft	`	7. Did Water have any Color? Yes No 🔃
Bottom Plug Yes No		CUA	If Yes • Describe
		1 <del>-211</del>	- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	T Ft.		Water Level Summary (From Top of Casing)  During Drilling ~ /8 Ft. Date 5/6/58
Grout Sand		155	Before Development Ft. Date
Caved Material		) <u> </u>	After Development 18.12 Ft. Date 5/1/98
Other:			1 ,
Driller/Firm WESE	a	Drill Rig Type WOB	UE B-61 Date Installed 5/6/98
Drill Crew LEE POR	ERTSON	Well No.	Kerr-McGee J. (RANTORA)

		RR-McGEE CORPORATION drology Dept S&EA Division	C Hemic			LOCATION	gecre	er M	BORIN	GERPC-70
	PTH			UNIFIED	BLOWS		1	OIL SAM		
	N ET	LITHOLOGIC DESCRIPTION	GRAP NC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.			REMARKS OR FIELD OBSERVATIONS
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	_	4		• .				25-27	' \2'	च्येत वरा।
		Alterative 1.		*			)	20-28	51.5	Meso
50		brown time so		-			X	185.3	557	Mie photo -
	_	From the work	9 2				V	30,5-3	21.5	mo -
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100				<u>. *  </u>				39-40		ME HOLLY
	▼ ▽	(2 ) ( ) ( 2 )				RAPHIC L		.140	9-8-	38 1 of 2
	PIE	Photoionization Detection (p)	óm)				DEI FILI	D	RILLING METH	JOD
Z	TYP		r			SILT	HIGH	ANIC (PEAT)	RILLED BY	SPI+ Joseph
NAT	X	SPLIT-	ROCK			SAND	SAI CL		EMB1.	inore Pailling
EXPLANATION		DARREE	CORE			GRAVEL	CL/ SA	AYEY ND	OGGED BY	Lower
		THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RECO	VERY	<b>S</b>	SILTY		Ē	XISTING GRAD	DE ELEVATION (FT. AMSL)
	DE	PTH Depth Top and Bottom of Sc	mple			CLAYEY		L	OCATION OR (	GRID COORDINATES
Ш	RE	C. Actual Length of Recovered	Sample in Fe	et 						

F	KE	RR-McGEE CORPORATION KM S	UBSIDIARY			LOCATION				T = = =		
	Hyd	drology Dept S&EA Division	Ph. Ka	)		Head	اورامه	•		BORIN NUMB	er <i>b C-J =</i>	
D	EPTH IN		¥°	UNIFIED					SAMPLE	=====		
1	EET	LITHOLOGIC DESCRIPTION	GRAPHIC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	£	υT	EPTH	REC.	REMARKS FIELD OBSERV	OR ATIONS
4	0	alterating light	4		<del>                                     </del>		1	-				·
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	Y	Water Table (24 Hour)			GR	APHIC LO	G LEGF	ND.		DRILLED	PAGE	
	$\nabla$	Water Table (Time of Boring)			CI		DEB FILL			g, 45		2
	PID NO.	Photoionization Detection (ppm) Identifies Sample by Number					HIGHL		111.	NG METHO	1 L4·~ Z~	
NO.	TYPE	Sample Collection Method			∭ sı	LT	ORGA	NIC (PEAT)	DRILLE		15x = 5x	-0-
EXPLANATION		SPLIT- RADDEI AUGER	ROCK		<b>∭</b> S≠	MD	SAN CLA	IDY Y		impl.	årer Dr.11.	ng
(PLA			CORE		G	RAVEL	CLA SAN	YEY	LOGGE	1		
Ω	۱ ا	THIN- WALLED TUBE  CONTINUOUS SAMPLER	NO RECOVERY		SI SI				S.		ELEVATION (FT. AMSL.	
			1 VECOVEKI									
	REC	H Depth Top and Bottom of Sample  Actual Length of Recovered Sample	e in Feet		SII SII	Τ.	Ш		LOCAT	ION OR GE	D COORDINATES	
									1			

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT MONITORING WELL INSTALLATION DIAGRAM Protective Pipe ----\_---Casing Cap Vent ? Yes No 🔯 Yes $\square$ No X --- Lock? Yes \ No \ Ween Hole ? Yes 🗌 No 🔯 Steel PVC Surveying Pin ? -Concrete Pad Ft. x Ft. x Inches Yes 🗍 No X DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 17 Inches. FROM **BELOW** TOP OF Concrete 2. Were Drilling Additives Used? Yes No 1 GRADE CASING Revert Bentonite Water 1.5. 1.0 Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes Cement/Bentonite Grout Mix Depth= to Feet. No 🗌 Yes 📉 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to 9.5 Ft. WELL CONSTRUCTION INFORMATION: 94Lb. Bag Cement & 3-5 Lb. Bentonite I.Type of Casing: PVC X Galvanized Teflon Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple 🕅 Couple Other \_ 11.0 10.5 3. Type of Well Screen: PVC X Galvanized Stainless Teflon D Other Wirg- Wrap PVC Bentonite Seal 4. Diameter of Casing and Well Screen: S Ft. Pellets X Slurry Casing & Inches, Screen 15.5 15 5. Slot Size of Screen: 0.020 Filter Pack 6. Type of Screen Perforation: Factory Slotted Ft Above Screen Hacksaw Drilled Other Wick-Wrappy d 7. Installed Protector Pipe w/Lock: Yes 🛛 No 🗌 18.5 18 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Dumping Air Surging (Air or Nitrogen) Other Surging FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand Ft. Washed Sand 3. Approximate Water Volume Removed ? 1500 Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid \ Opaque Other: \_\_\_ 5. Water Clarity After Development? Clear M Turbid | Opaque 🗍 Sand Size 8 - 12 6. Did Water have Oder? Yes No \square 48.5 48 If Yes, Describe \_\_\_ 7. Did Water have any Color? Yes No 🔀 Dense Phase Sampling Cup If Yes, Describe Bottom Plug Yes 🔀 No 🖂 50.5 50 WATER LEVEL INFORMATION: Overdrilled Material Water Level Summary (From Top of Casing) Backfill Ft. During Drilling \_\_\_\_\_ Ft. Date 9-8-58 Grout Sand Before Development 19.44 Ft. Date 7-12.98 Caved Material After Development 18.73 Ft. Date 9-14-98 Driller/Firm Compliant Dailling Drill Rig Type Mobile Date Installed 9-12-98 Kerr-McGee Hydrologist Steven R. Lower Well No. Pc-10

KE	ERR-McGEE CORPORATION	KM SUBSIDI				LOCATION				BORIN	G 2.2.22
Ну	drology Dept S&EA Division	KMC		LC		HENDI	ERSON	-	NV	NUMBI	FR PC 98
DEPTH			RAPHIC	UNIFIED SOIL	BLOWS PER	PID			IL SAMP	PLE	REMARKS OR
IN FEET	LITHOLOGIC DESCRIPTION	)N	SRAI	FIELD CLASS.	6'	(ppm)	NO.	YPE	DEPTH	REC.	FIELD OBSERVATIONS
	0-12 gravelly SA	ND	0	CLASS.			'	1			
_		•									
_	mod yell brn (104R	<sup>9</sup> /4),	9								
-	20.25% granules d	sm.	.0.			-					-
5 -	20-25% granules & pebbles to 1" diam	(volc)		SP		<del> </del>					
-	Sp-mod siltinmati		00	24		-					
-	37		.0.0.						•	-	
_	ZUZ). Sand vf-va	: ,5K-54\	0			_					
10 -			.0								_
-			.00:								
-	12-16 sty sky GRAV	/E1_	00.0					7			
	111 - 1540 511	7 '11	0.0	GILL						,	
	H brn (54R 5/4), 20 25% VE-VL A-SR	70511+	0-0	and							damp@15
16-	25% VF-VL A-SR	sana.	8/00		<del> </del>	-	<del>  </del>			-	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
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-	copples up to 6"	diam	110								
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	13-16 V. hard, dense calichitication	<b>-</b>				<u></u>					7622
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23 -	SANY, mod sing	27 N 79 77. 237	1110	س دا							
	20-25% 511+, 20-25										
	granules and sm pe to 3/4". 50% vf-vc					And American					
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-	34-37 SITY SAND,	1+ ye.	/\ \i	SM							_
37	minor ma, 5R-5A	75-30%	(								
- '	- silt. Mod com man	1c cally				_					
	brn(10 YR 6/4). Vf. minor mg, SR-5A.  silt. Mod com mod	areous		GC	†	-					
<b>—</b>	▼ Water Table (24 Hour)		111.10	1010		GRAPHIC	LOG LE	GEI	ND C	DATE DRILLE	<b>l</b> .
1 1	✓ Water Table (Zime of Borin	ia)				CLAY		DEB	RIS	5-16 DRILLING MET	1
	PID Photoionization Detection () NO. Identifies Sample by Numb	ppm)			1				1	cento me:	HSA
	YPE Sample Collection Method				ΙШ	SILT				DRILLED BY	· ( w / \
ATI	SPLIT-		ROCK			SAND		SAN CLA			COMPLIANCE
EXPLANATION	BARREL		CORE			GRAVEL		CLA	YEY	LOGGED BY	. Va
R K	THIN- CONTINUOU	is \	ИО		1	SILTY		υ <b>~</b> ι,			ADE ELEVATION (FT AMSL)
	TUBE CONTINUOUS SAMPLER		RECOVE	ERY	1						
	DEPTH Depth Top and Bottom of		:_ e. ·		180	CLAYEY SILT				LOCATION OF	R GRID COORDINATES
	REC. Actual Length of Recovered	u sampie	iii reet								

	CERR-McGEE CORPORATION	KM SUBSIDIARY			LOCATION	: a r . a l		BORING	G ER PC 98
	EPTH SEC		LLC	D BLOWS		ERSO N			ER IC YO
DEPT IN FEET	LITHOLOGIC DESCRIPTION	GRAPHI	SOIL FIELD CLASS	PER	PID (ppm)	NO. 17	DEPTH		REMARKS OR FIELD OBSERVATIONS
41	37-41 sdy grav SILT  grav SAND W/15 %  granules to 1/8-1/4"  gry orange pink (5y  Contains 25-50 % ve  in silt/clay matrix.)  volc +1s granules to 1/8  Very calcareous w/m  caliche nodules.  41-45 5 Hy CLA  Hymgry (5648/1). 25 % sil  v. calcareous w/mine  sized ealiche modules.  45' TY	/s/ty /o dissem// / Mod / / R 6/2) // / C-f 5 d 0-20% - 1/4". . od c-v c	9						MC @ 41'
EXPLANATION	▼ Water Table (24 Hour)  ▼ Water Table (Time of Borin PID Photoionization Detection (p. NO. Identifies Sample by Numb Sample Collection Method  SPLIT-BARREL AUGER	ppm)			GRAPHIC  CLAY  SILT  SAND  GRAVEL	DE FILL HIGG ORC	BRIS L HLY GANIC (PEAT)	LOGGED BY	00 2 of 2
EXF	THIN- WALLED TUBE  DEPTH Depth Top and Bottom of Sec. Actual Length of Recovered	REC Sample	OVERY	83	SILTY CLAY CLAYEY SILT		-	EXISTING GRA	ADE ELEVATION (FT AMSL)

# KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FLUSH MONITORING WELL INSTALLATION DIAGRAM ----Casing Cap Vent ? Yes No Protective Pipe ----Mount \_\_\_Lock? Yes \ No \ Yes No No Weep Hole? Yes No Steel PVC Ft. Surveying Pin ? ---Concrete Pad \_\_\_\_\_\_Ft. x \_\_\_\_\_Ft. x \_\_\_\_\_Inches No 🗌 Yes 🗌 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 10-5 Inches. FROM TOP OF **BELOW** 2. Were Drilling Additives Used? Yes No Ft. Concrete GRADE CASING Revert Bentonite Water Solid Auger 🔲 Hollow Stem Auger 📈 0 3. Was Outer Steel Casing Used? Yes Depth= to Feet. Cement/Bentonite Grout Mix No Yes 🔀 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: 10 Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other \_\_ Other: 2. Type of Casing Joints: Screw-Couple Glue-Couple Other \_\_ 3. Type of Well Screen: PVC 😿 Galvanized 🗌 10 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Ft. Casing 4 Inches, Screen 4 Inches. Pellets Slurry 12 5. Slot Size of Screen: 6. Type of Screen Perforation: Factory Slotted 🔀 Filter Pack 1.5 Ft. Above Screen Hacksaw Drilled Dother\_ 7. Installed Protector Pipe w/Lock: Yes No X 13.5 WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing | Pumping | Air Surging (Air or Nitrogen) Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand \_\_\_\_\_/\_\_\_/\_\_\_\_/Minutes/Hours 20 Ft. Washed Sand 3. Approximate Water Volume Removed? Gallons 4. Water Clarity Before Development? Clear Pea Gravel Turbid Opaque Other: 5. Water Clarity After Development? Clear Turbid [ Opaque [ Sand Size 2-12 mesh 6. Did Water have Odcr? Yes No 🛛 33 If Yes, Describe 7. Did Water have any Color? Yes No 🖂 Dense Phase Sampling Cup 0.5 Ft. If Yes . Describe Bottom Plug 33.5 Yes No No WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material During Drilling 22 Ft. Date 5-16.00 Backfill Before Development 14.01 Ft. Date 5-17-00 Grout Sand Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: Driller/Firm Compliance Drill Rig Type Mobile 8-59 Date Installed 5-17-00 Kerr-McGee Well No. PC 98 Hydrologist ED KRISH Drill Crew Loya

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIARY	بن	LOCATION	der	. 2-0	in 2V	BORING NUMBER PC 98 R		
DEPTH IN FEET	LITHOLOGIC DESCRIPTIC	Z GRAPHIC	UNIFIED SOIL FIELD CLASS.	BLOWS PER 6"	PID (ppm)	ΝО.	TYPE SC	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
   	o-5 gravelly ? gryish brn w/10% S zo-30% granules- gravel to 3/4". vf-v	pen o	SP							- - -
	5-9 SAND, gry b w/10% silt and 5-1 volc granules to 1/4'	-f-VC	SW					-		- - -
'-	154 sand 19-10 say GRAVE	(to 1")::	5W 5W							
	25-356 vf-vc sd 10-12 SAND, brn 10% silt, 5% granules volc, SA sand 12-24 sdy GRAUG brn. w/5-10% silt vf-vc, SA-A sand Cranules to peage A-SA. 1/2"-3/4" w/1	£ +-vc/ 300 000 000 000 000 000 000 000 000 00	S. S. S. S. S. S. S. S. S. S. S. S. S. S	635		A PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PARTITION OF THE PART	X	Za'- Z1.5	50%	damp@12'
Z4 -	Locally caliche comented.		SP	25			X	25-26	75%	-
30_ - 30_	clean, fing w/c- z4-z6 SAND. gry by clean, fing w/c- z6-34 sdy GRA gry brn, 10-15% sil 30% vf-vc. SA sand granule - pea grave 1/2-3/4	VEL	00000000000000000000000000000000000000				X	30'- 31.5'	80%	
-	29-30 - cobbles u 34-40.5 gravely st 20-30 % silt and 10 volc granules to 14" Com. dissem st-size	TY SAND	Gmy	123			X	35'- 36.5'	100%	
EXPLANATION AT AN AN AN AN AN AN AN AN AN AN AN AN AN	Water Table (24 Hour)  Water Table (Time of Boring Defection (p	g) ppm)			GRAPHIC I  CLAY  SILT  SAND  GRAVEL		DEB FILL HIGHL ORGA SAN CLA	RIS DRILL  Y NIC (PEAT) DRILL  JOY Y	LA GED BY	200 1 of Z CUSSION YNE
D	THIN- WALLED TUBE  EPTH Depth Top and Bottom of S REC. Actual Length of Re@vered	RECC	OVERY eet	<b>3</b>	SILTY CLAY CLAYEY SILT		,	EXIS	TING GRAD	DE ELEVATION (FT AMSL)  GRID COORDINATES

KERR-McGEE CORPORATION Hydrology Dept S&EA Division						LOCATION	ers	3N 1	JV BORING PC 9BR				
DEPT				UNIFIED	BLOWS			SOIL S		<u> </u>			
IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPL	SOIL FIELD CLASS.	P⊞ 6	PID (ppm)		ш	PTH	REC.	REI FIELD C	MARKS BSERV	OR ATIONS
40.5	-11 · · · · · · · · · · · · · · · · · ·		XXX	CL	-	Andrew Constitution of the Principles	man gasan dinan singan sangan sangan	S. ST CHALLES.		ii da Amma a sana (cambaga ja	n de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l		
	- calcareous, Sand												_
	vf-fw/minor mg.	1											
_	40.5-41.5 sty CL	AY											
	It grn, w/ dissen	nsm											
	- gypoum x tals								-				_
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	▼ Water Table (24 Hour)				(	SRAPHIC I	LOG LEC	GEND		TE DRILLED	l l	PAGE	of <b>Z</b>
	Water Table (Time of Boring PID Photoionization Detection (p					CLAY	ESS F	DEBRIS ILL	DRI	8-8	- 0 0 J	<u> </u>	UI <b>5</b> -
Z	PID Photoionization Detection (p NO. Identifies Sample by Number TYPE Sample Collection Method					SILT		IIGHLY DRGANIC (PE	AT) DRI	Perc ILLED BY	-USS10	N	
ATIC	SPLIT.		OCK			SAND		SANDY			AYN	E	
EXPLANATION	BARREL AUGER		ORE			GRAVEL		CLAYEY SAND	LO	GGED BY	> KR	15 H	
<del>X</del>	THIN: WALLED TUBE  CONTINUOUS SAMPLER	5 \ \ \ R	O ECOVE	RY	-	SILTY			EXI	ISTING GRAI			4SL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	iample Sample in	n Feet			CLAYEY SILT			- 10	CATION OR	GRID COOR	DINATES	

		McGEE CORPO	RTMENT
			LATION DIAGRAM MOUNT
Protective Pipe		Casing Cap V	ent? Yes No 🗵
Yes 🗌 No 📈		Lock ? Yes [	□ No 🔯 . /
Steel PVC	<del></del>	Weep Hole?	Yes 🗌 ' No 🔀
Surveying Pin ?	Ft.	Concrete Pad	Ft. xFt. x
Yes No 🔯		2:2:	DRILLING INFORMATION:
-	1000	DEPTH FROM	1. Borehole Diameter= Inches.
Concrete	Ft.	BELOW TOP OF	2. Were Drilling Additives Used? Yes ☐ No 🗵
		GRADE CASING	Revert Bentonite Water
			Solid Auger 📗 Hollow Stem Auger 🗌
	4		3. Was Outer Steel Casing Used? Yes 🗌 🛮 No💢
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes ☑ No 🗌			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to	ا ا ا ا ا		WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & 3-5 Lb. Bentonite	5 Ft.		1. Type of Casing: PVC Galvanized Teflon
Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 📉 Glue-
			Couple Other
	1	}	3. Type of Well Screen: PVC Galvanized
Bentonite Seal	↑ 🔘 🕷		Stainless Teflon Other
·	<u> </u>		4. Diameter of Casing and Well Screen:
Pellets Slurry	<b>→</b> 👹 👹	16	Casing 4 Inches, Screen 4 Inches.
Silver Deals			5. Slot Size of Screen: 0.040
Filter Pack Above Screen —	4 Ft. 3	,	6. Type of Screen Perforation: Factory Slotted
		}	Hacksaw
	1-8-8	20	WELL DEVELOPMENT INFORMATION:
		(	1. How was Well Developed? Bailing Pumping
		{	Air Surging (Air or Nitrogen) Other
FILTER PACK MATERIAL	(: ]	}	2. Time Spent on Well Development ?
Silica Sand	[년 :		//20 Minutes/fixers
Washed Sand	15 Ft. ]	.{	3. Approximate Water Volume Removed ? Gallons
	<u> </u>		4. Water Clarity Before Development? Clear
Pea Gravel		.}	Turbid M Opaque
Other:			5. Water Clarity After Development? Clear
Sand Size 8-12 mesh			Turbid Opaque
Sand Size 6-12 mesh		35	6. Did Water have Oder? Yes X No.
	<del></del>	.\	It Yes, Describe <u>faint pestuide</u>
Dense Phase Sampling Cup	5.5 Ft.	:}	7. Did Water have any Color? Yes \( \bigcap \) No \( \bigcap \)
Bottom Plotg		40.5	If Yes • Describe
Yes No 🗌	الماليات المالية	1 <del>-1</del>	WATER LEVEL INFORMATION:
Overdrilled Material Backfill	/.0 Ft.		Water Level Summary (From Top of Casing)  During Drilling 18 Ft. Date 2-8-00
Grout   Sand		110	Before DevelopmentFt. Date
Caved Material		) <u>41.5</u>	After Development Ft. Date
Other:			T to Date
Deilles /Fi		Drill Rig Type AF	7-1000 Date Installed 8-8-00
Driller/Firm	0		Kerr-McGee
Drill Crew		Well No. PC 9	8R Hydrologist ED KRISH

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIAR	· L	. C		HEND	ED TO	J	NV	BORING	R PC 99
DEPT		<u> </u>		UNIFIED	BLOWS		<u></u>		OIL SAMP		
IN	LITHOLOGIC DESCRIPTION	N S	GRAPHIC	SOIL FIELD CLASS.	PER 6"	PID (ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
5-	D-II sdy GRAVE  Pale brn (548 5/2), c  only 10%, silt, 30% SA  vf -vc sd.  60% volc granules  sm. pebbles to 2"	lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean- lean-	000000000000000000000000000000000000000	GP							Ve3'
H	▼ Water Table (24 Hour)			1	,	FRAPHIC			IND	ATE DRILLED	
NC	PID Photoionization Detection (p NO. Identifies Sample by Numb Sample Collection Method	opm)			1	CLAY		HIGHL ORGA	LY ANIC (PEAT)	5-17 RILLING METH	
EXPLANATION	SPLIT- BARREL AUGER	ROCO			1	SAND GRAVEL				OGGED BY	PLIANCE
EXP	THIN- WALLED TUBE  CONTINUOU SAMPLER	S NC	O COVEI	RY	1	GRAVEL SILTY CLAY		1AC	ł	ED XISTING GRA	KRISH DE ELEVATION (FT AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		Feet			CLAYEY SILT				OCATION OR	GRID COORDINATES

	RR-McGEE CORPORATION	KM SUBSIDI				LOCATION				BORING	G PC OO
Ну	drology Dept S&EA Division	KMC		L C		HENDE	ERSO	N	NV	NUMBE	PC 99
DEPTH IN	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD	BLOWS PER	PID			OIL SAME	PLE	REMARKS OR
FEET	Ennotooic beschi no		GRA L	FIELD CLASS.	6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
_			0 %								
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49 -	48-49 SIty SAND, 1 4e11 brn (10486/2). 3	701e_					ļ				to a south from the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o
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' -	Sorted VI-f sand.	Tantains	1								
-	10% dissem volc gra										_
-	to 1/8"								,	``	_
_	49-51 Sdy GRAVEL	, hard,									_
	well calichitied.	· ′									
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1 1	Water Table (24 Hour)					GRAPHIC			140	S-18-	
	Water Table (Time of Borin PID Photoionization Detection (p					CLAY		DE	BRIS (	DRILLING MET	
	<ol> <li>Identifies Sample by Numb</li> </ol>				1 m	SILT		HIGH	ILY ANIC (PEAT)		HSA
EXPLANATION	YPE Sample Collection Method	<del></del>			1				1,	DRILLED BY	
AN	SPLIT- BARREL AUGER		ROCK Core		1	SAND			NDY AY	LOGGED BY	MPLIANCE
PIA F						GRAVEL		SA	ND YEY	巨り	KRISH
	THIN- WALLED SAMPLER THIS	s	NO RECOVE	RY	125	SILTY					DE ELEVATION (FT AMSL)
	1086	لاسا				CLAYEY				LOCATION OF	GRID COORDINATES
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered		n Feet			J SILT	 :	l <i>'-</i>			

					ORATION TTMENT
					· · · · · · · · · · · · · · · · · · ·
Protective Pipe	_		Ca	sina Cap Ve	ation diagram  FLUSH  Int? Yes   No   Mount
Yes No		<u>_</u> -t-		ck? Yes [	No [] Moun'
Steel PVC		一			res No
Surveying Pin ?	Ft.				Ft. xFt. xInches
Yes No No			-	onoroto i au	DRILLING INFORMATION:
	D. 20 20 1	P	DEP	TH FROM	1. Borehole Diameter= \D\/z Inches.
Concrete	Ft.		BELOW	TOP OF	2. Were Drilling Additives Used? Yes No 📈
			GRADE	CASING	Revert Bentonite Water
					Solid Auger 🗌 Hollow Stem Auger 📈
	4				3. Was Outer Steel Casing Used? Yes 🗌 No📈
Cement/Bentonite Grout Mix					Depth=toFeet.
Yes No 🗌					4. Borehole Diameter for Outer CasingInches.
5.5 Gallons Water to	0 Ft.				WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & _ 3-5 Lb. Bentonite	Ft.\				I.Type of Casing: PVC 🗹 Galvanized 🗌 Teflon 🗌
Powder	{				Stainless Other
Other:	(				2. Type of Casing Joints: Screw-Couple Glue-
			. 0		Couple Other Galvanized Galvanized
	<del></del>				Stainless Teflon Other
Bentonite Seal	0-5 Ft.		ı		4. Diameter of Casing and Well Screen:
Pellets Slurry [	1 Ft.				Casing 4 Inches, Screen 4 Inches.
	_ <del> </del>		0.5		5. Slot Size of Screen: 0.020
Filter Pack			,		6. Type of Screen Perforation: Factory Slotted
Above Screen _			,		Hacksaw Drilled Other
					7. Installed Protector Pipe w/Lock: Yes 🗌 No 🔀
					WELL DEVELOPMENT INFORMATION:
		<b>5</b> 1			1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL		<b>13</b>	<u>;</u>		Air Surging (Air or Nitrogen) Other
		<b>13</b> .			2. Time Spent on Well Development ?
Silica Sand	47 Ft.	旨∴			/// Minutes Hours
Washed Sand	47 [	더·			3. Approximate Water Volume Removed ? Gallons
Pea Gravel 🗌	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	目.	į		4. Water Clarity Before Development? Clear
Other:		目∷	}		Turbid Opaque 🗌 5. Water Clarity After Development? Clear 🕅
	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	目	}		Turbid Description Opaque
Sand Size 2-12 mesh	· ]	目	·		6. Did Water have Oder? Yes No
	<u> </u>	=  :	1-47	-	- If Yes, Describe
Dense Phase Sampling Cu	P C FL		}		7. Did Water have any Color? Yes 🗌 No 🔀
Bottom Plug	<del></del>	<b>∐</b> .∵	47.5	ı	If Yes , Describe
Yes 🕅 No 🗌	1-1-	نشكيك	1-11-3		- WATER LEVEL INFORMATION:
Overdrilled Material Backfill	† Ft.		!		Water Level Summary (From Top of Casing)  During Drilling Ft. Date 5-17-00
Grout Sand	1 1				Before Development 1.35 Ft. Date 5-18.00
Caved Material 🔀	<u> </u>		j_ <u>51</u>	_	•
Other:	-				After Development Ft. Date
Driller/Firm Com	PLIANCE		Drill Rig T	ype Mob	1 le B-59 Date Installed 5-17-00
,			Wall No	PC 90	9 · Kerr-McGee Hydrologist ∈ D KRISH
Drill Crew LoyA			Well No	· = 1	nyurologist CD KK12H

	RR-McGEE CORPORATION	KM SUBSIDI				Hen	Lore	# 7.	, All/	BORING	PC 99 R
	drology Dept S&EA Division	Kmo		I IA II CICO	m/		1				10 111
DEPTH IN FEET	LITHOLOGIC DESCRIPTIO	N	SAPHIC LOG	UNIFIED SOIL FIELD	PER	PID (ppm)	ио.	YPE YPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
	1		5	CLASS.	6'		NO.		DEPIH	KEC.	
_	O-6 SDY GRAVEL		0.0.			_					_
-	Brn, vf-vc sd ma		00.0	C. (							- @z
_	(46%) w/ vole grave		000	GW							3-6' perched
	1" W/miner Z-3". Spa silt (10%)	roc	0.0								WIR
6 -			0,0		7			_	6-7-		
-	6-20' SHY SAN	♥ ,	J		14	<del>, -</del>		X.	6-7,5	70 %	6-12' damp-
-	1+ brn. vf-fg, 5A	, w/									6-12' damp- partly dry
10 -	30% silt in matrix		.]. .								·
-				<b>-</b>		_					
-	Locally com-abu	1 .		2M							
-	sd size calicheno					-					below 12' wet _
15	scattered throughous	ut								,	-
_	13-18 abu caliche	-	:1i:		6					15.3	
-	nodules		:: :		7			Χ	16-	100%	_
-					0						_
122			11:						1		_
20-	20-24 sity graves	14	000	· /			-				and dispute operator.
-	SAND. Frown. 20	-30%	0.0	GM/							
	sil+, 10-20% volc. A-	SApea	100	SM							
24-	gravelin vf-vc, SA se		000	a distribution description	and the second second	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	er og for til began en beganninger				major WTR _
	24-39 Sdy GRAVE		0.00		-1						30ne
-	brn. 5% silt, 30-4		000	GW	18"			X	26-27	.5 0%	70718mm
-	vf-vc SA sd in vo	10	000			-		,			,
22	Peagravel to 1"		000								
30-	30-34 gravelly SAI	VD, brn	0.0								
	10-15% vole A.SA pe	a grave	1.0.0	SW		_					_
	in m-cg sd w/ minor tre, 10% sitt	t-vt	:0:			-					_
34	7.1-17 -1 -101.1	. (	000		<del> </del>		<del>                                     </del>	$\vdash$	-		-
1 -	brn. Abu SR-R S clasts to 11/2" (60%) Volc. Zo-ZSI SA-SR Sand. Locally calic	-, pare	0.00	<u> </u>							
	1 5rn - Abu 3 K- K 13.	, 4 C201101	1000	GW							WITH LS
	Volc. 70-251 50-58	C 40	000	,							-
	sand . Locally caliel	ified	000	5							_
7	Water Table (24 Hour)					RAPHIC	LOG LE	GE	ND D	ATE DRILLED	PAGE / 7
	Water Table (Time of Boring					CLAY		DEB FILL	BRIS D	RILLING METH	00 1 of Z
N	PID Photoionization Detection (p IO. Identifies Sample by Number									PERC	25513 N
[S] [	YPE Sample Collection Method				1				D	RILLED BY	_
N	SPLIT. AUGER		ROCK CORE		1	SAND			l t	OGGED BY	INE
EXPLANATION			JONE			GRAVEL		CLA	AD YAEA	Ed	KRISH
Û	THIN- WALLED TUBE CONTINUOUS SAMPLER		SECOVE 40	RY	<b>33</b>	SILTY			ε	XISTING GRA	DE ELEVATION (FT AMSL)
0	DEPTH Depth Top and Bottom of S	ample			1	CLAYEY SILT				OCATION OR	GRID COORDINATES
	REC. Actual Length of Recovered	Sample i	n Feet		Luin	JIL 1					

	ERR-McGEE CORPORATION ydrology Dept S&EA Division	KM SUBSIDIA				LOCATION	Jers	sor	2 N	/ BORIN	IG PC 99R
DEPTH			JE 6	UNIFIED SOIL		PID		SC	OIL SAM		
IN FEET	LITHOLOGIC DESCRIPTION	М	GRAPHIC LOG	FIELD	PER 6'	(bbm)	NO.	TYPE	DEPTI		REMARKS OR FIELD OBSERVATIONS
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47			000	GW							_
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<b>—</b>	Water Table (24 Hour)				 	RAPHIC I	06.15	CE	UD T	DATE DRILLED	PAGE
1 1	7									2/2/	00 2 of 2
111	PID Photoionization Detection (p	pm)			1	CLAY			1	DRILLING MET	
	VO. Identifies Sample by Number VPE Sample Collection Method	er				SILT		HIGHL	Y NIC (PEAT)	Percu DRILLED BY	JS1917
ATE	V Spur		264	•		SAND		SAN	3	Lay	10_
EXPLANATION	SPLIT- BARREL AUGER		DCK Dre		1	GRAVEL		CLA	Ì	LOGGED BY	
EX P	THIN- CONTINUOUS		0		1			SAN	ID	EO	LRISH DE ELEVATION (FT AMSL)
	TUBE CONTINUOUS		COVE	RY	1	SILTY CLAY				EMSTING GRA	DE SECVICION OF LAMBEL
	DEPTH Depth Top and Bottom of S	ample	<b>r</b> .			CLAYEY SILT				LOCATION OR	GRID COORDINATES
	REC. Actual Length of Recovered	sample in	reet				·				

### KERR-McGEE CORPORATION FLUSH HYDROLOGY DEPARTMENT MOUNT MONITORING WELL INSTALLATION DIAGRAM \_---Casing Cap Vent? Yes 🔲 No 🗌 Protective Pipe ------ Lock? Yes No Yes $\square$ No 🏹 ∠Weep Hole? Yes 🔲 No 🔲 Steel PVC Ft. Surveying Pin? -Concrete Pad Ft. x Inches Yes 🗌 No 🔯 DRILLING INFORMATION: DEPTH 1. Borehole Diameter= 9 Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used? Yes No W Concrete GRADE CASING Revert Bentonite Water Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used? Yes No X Depth= to Feet. Cement/Bentonite Grout Mix Yes 🛛 No 4. Borehole Diameter for Outer Casing Inches. 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & 1. Type of Casing: PVC Galvanized Teflon 3-5 Lb. Bentonite Powder Stainless Other Other: 2. Type of Casing Joints: Screw-Couple Couple Other 3. Type of Well Screen: PVC 🔀 Galvanized 🗌 Z Stainless 🔲 Teflon 🔲 Other \_\_\_ Bentonite Seal 4. Diameter of Casing and Well Screen: **Z** Ft. Pellets X Slurry Casing 4 Inches, Screen 4 Inches. 5. Slot Size of Screen: 0.04 6. Type of Screen Perforation: Factory Slotted Filter Pack Above Screen Hacksaw Drilled Other\_ X.5 7. Installed Protector Pipe w/Lock: Yes . No . WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) Z Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development? Silica Sand \_\_\_\_\_/ 60 Minutes/Haurs 40 Ft. 3. Approximate Water Volume Removed ?Z500Gallons Washed Sand 4. Water Clarity Before Development? Clear Pea Gravel Turbid 🗷 Opaque 🗌 Other: 5. Water Clarity After Development? Clear Sand Size 8-12 10 24 Opaque [ Turbid | 6. Did Water have Odcr? Yes No 48.5 12 6 4 If Yes, Describe 7. Did Water have any Color? Yes . No X Dense Phase Sampling Cup 515 Ft. Bottom Plug If Yes . Describe 53 NoM Yes 🗌 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material 3 Ft. Date 8-8-00 Backfill Ft. During Drilling \_\_\_\_ Before Development 2 Ft. Date 8-9-00 Grout Sand 54 Caved Material After Development \_\_\_\_\_ Ft. Date\_ Other: \_ Drill Rig Type AP-1000. Date Installed 2-8-00 Driller/Firm Well No. PC 99 R Kerr-McGee Ed KRISH Drill Crew

SOIL BORING LOG KM-5655-B

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FEE	Т	LITHOLOGIC DESCR	IPTION	GRAPHIC LOG	FIELD CLASS.	PER 6'	(ppm)	NO.	DEF	TH	REC.	FIELD OBSERVATIONS
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П	<b>Y</b>	Water Table (24 Hour)					RAPHIC L				EDRILLED	PAGE
	V PID	Water Table (Time of B Photoionization Detection	on (ppm)				CLAY	P	EBRIS LL		LING METH	
z	NO. TYPE	Identifies Sample by No Sample Collection Meth	umber				SILT	₩ o	GHLY RGANIC (PEAT)	DRIL	PER LED BY	CUSSION
EXPLANATION		PLIT. AUGER		ROCK			SAND	⊠ s			GED BY	/ NE
KPLA		- Annel	<u> </u>	CORE			GRAVEL	S	LAYEY AND	1	GED BY	KRISH
	V V	HIN- VALLED CONTINU SAMPLER	uous	NO RECOVER	RY	<b>SS</b>	SILTY CLAY					E ELEVATION (FT. AMSL)
	DEPT REC	H Depth Top and Bottom . Actual Length of Recov	of Sample ered Sample i	n Feet		<b>E</b>	CLAYEY SILT			LOC	ATION OR C	RID COORDINATES

## KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT FLUSH MONITORING WELL INSTALLATION DIAGRAM MICONT IN ----Casing Cap Vent ? Yes No No Protective Pipe ----\_\_\_\_Lock ? Yes \ No \ Yes No No -Weep Hole ? Yes 🗌 No 🗍 Steel PVC Ft. Surveying Pin ? ---Concrete Pad Ft. x Ft. x Inches Yes 🗌 No 🗌 DRILLING INFORMATION: DEPTH I. Borehole Diameter= 11.5 Inches. FROM BELOW TOP OF 2. Were Drilling Additives Used ? Yes . No [X] Concrete GRADE CASING Revert Bentonite Water 12/1/2 Solid Auger | Hollow Stem Auger | 3. Was Outer Steel Casing Used ? Yes No 🖾 Depth= to Feet. Cement/Bentonite Grout Mix Yes 🕅 No 🗌 4. Borehole Diameter for Outer Casing 5.5 Gallons Water to WELL CONSTRUCTION INFORMATION: Ft. 94Lb. Bag Cement & I.Type of Casing: PVC 🖾 Galvanized 🔲 Teflon 🗌 3-5 Lb. Bentonite Powder Stainless Other \_\_\_ Other: 2. Type of Casing Joints: Screw-Couple M Couple Other \_\_\_\_ 3. Type of Well Screen: PVC 🖾 Galvanized 🗆 Stainless Teflon Other\_ Bentonite Seal 4. Diameter of Casing and Well Screen: Casing 6 Inches, Screen 6 Inches. Pellets Slurry -5. Slot Size of Screen: Filter Pack 6. Type of Screen Perforation: Factory Slotted Ft. Above Screen Hacksaw Drilled Dother\_ 7. Installed Protector Pipe w/Lock: Yes \ No \ WELL DEVELOPMENT INFORMATION: 1. How was Well Developed? Bailing Pumping Air Surging (Air or Nitrogen) 🔟 Other\_ FILTER PACK MATERIAL 2. Time Spent on Well Development ? Silica Sand \_\_\_\_\_/\_\_\_/\_\_\_\_\_Minutes/Hours Ft. Washed Sand M 3. Approximate Water Volume Removed ? \_\_\_\_\_ Gallons 4. Water Clarity Before Development ? Clear Pea Gravel 🗌 Turbid Opaque Othera 5. Water Clarity After Development ? Clear Opaque 🗌 Turbid 🗌 Sand Size 8 X 7 6. Did Water have Oder? Yes [ No [ 50 If Yes, Describe 7. Did Water have any Color? Yes . No . Dense Phase Sampling Cup If Yes . Describe Bottom Plug 55.3 No 🗀 Yes 🗷 WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Overdrilled Material Backfill Ft. During Drilling \_\_\_\_\_ Ft. Date \_\_\_ Grout | Sand | 55.2 Before Development Ft. Date Caved Material After Development \_\_\_ Ft. Date\_\_\_\_ Other: Driller/Firm MARTIN / LAYNE Drill Rig Type A 8-1000 Date Installed 5-24-01 Kerr-McGee K. Well No. FC - 9972 Drill Crew / ACAA Hydrologiet PAN

SOIL BORING LOG KM-5655-B

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY	لل	<u></u>	LOCATION HEN	DEF	52 0	7	BORING	PC 99R3
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FEE		GRA S	FIELD CLASS.	6.	(bbw)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
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	- VF-VC W/ 10% 1"	gravel ::	SW		<u> </u>					` <del> </del>
	] and 10+20% silt									-' u' ) / · 4
5.		( ) (	·	<del> </del>			_	,	-	3-11 wet/moist
	-5-9' GRAVEL, S	dy   08								` =
	= w/10 % silt. Volc	gravel o.o.	GW							
9	Tto 1/2" w/ 20-30% V	4-VC [800	4.	-	<del> </del>	╁╼┼	+	.,	-	11-17 only damp
lu i	9-11' SAND, slty,	brn	SM							
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	-11-18 5AND, sty &	SILT	sm/	·	-					@17 wet/moist
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	<ul><li>■ Water Table (24 Hour)</li><li>□ Water Table (Time of Boring</li></ul>	~1			GRAPHIC			-	7-17-	01 1 of 2
	PID Photoionization Detection (p NO. Identifies Sample by Number	pm)		1	CLAY			DR	ILLING MET	/
S	TYPE Sample Collection Method	~·		1	SILT		rgank	104	ILLED BY	CUSSION
NAT	SPLIT- AUGER	ROCK			SAND			1.0	LAY GGED BY	NE
EXPLANATION	DAKKEL	CORE			GRAVEL		CLAYE	Y	E.	KRISH
<u> </u>	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RECO	/ERY	E	SILTY			EX	ISTING GRA	DE ELEVATION (FT, AMSL)
	DEPTH Depth Top and Bottom of S REC. Actual Length of Recovered	ample Sample in Fed	et .		CLAYEY	□.		. LO	CATION OR	GRID COORDINATES

SOIL BORING LOG KM-5655-B

LITHOLOGIC DESCRIPTIO	Z GRAPHIC	UNIFI SOI	D RI OW		T				
TITHOLOGIC DESCRIPTIO	GRA S		PER	PID			OIL SAMPI	LE	REMARKS OR
-		의 FIEL	) ] '=.'	(bbm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS
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- 51-52 V. SHy	0:	60							- - -
- 52-58 CLAY, slty grnish	+ + +	7//-		  					TOP MC - C 52' - (damp) -
58'									
Water Table (Time of Boring Photoionization Detection (p NO. Identifies Sample by Number Sample Collection Method  SPLIT-BARREL  THIN-WALLED TUBE  DEPTH Depth Top and Bottom of S	Pm) ROCE CORE NO RECC	OVERY		SILT SAND GRAVEL		DEB FILL HIGHL DRGA SAN CLA	RIS OR Y MC (PEAT) DRIVER AND LCC	7 - 17 - RILLING METH	. 1
	SPLIT. BARREL  SPLIT. BARREL  THIN- WALLED TUBE  DEPTH Depth Top and Bottom of S  STAND STAND  STAND STAND  CLAY, slfy  CLAY, slfy  CLAY, slfy  CLAY, slfy  GLAY, slfy  GLAY, slfy  AUGER  CLAY, slfy  GLAY, slfy  AUGER  CLAY, slfy  GLAY, slfy  AUGER  CLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, slfy  GLAY, sl	Water Table (24 Hour)  SZ-58 CLAY, slty  grnish  Water Table (Time of Boring) Photoionization Detection (ppm) NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT. BARREL AUGER ROCC THIN. WALLED TUBE TO SAMPLER ROCC COR THIN. WALLED TUBE TO SAMPLER ROCC COR THIN. THOLOGORIA CONTINUOUS SAMPLER DEPTH Depth Top and Bottom of Sample	Water Table (24 Hour)  SPUT.  SPUT.  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DEPTH Depth Top and Bottom of Sample

	-McGEE CORP	
		LATION DIAGRAM
Protective Pipe	Casing Cap V	vent ? Yes ☐ No 反
Yes No No	Yes [	
Steel PVC	Weep Hale ?	Yes No X
Surveying Pin ? 1.92Ft.	Concrete Pad	fFt.xFt.xInches
Yes No No	<u> </u>	DRILLING INFORMATION:
7 7 7 7 7 7	DEPTH FROM	1. Borehole Diameter= 1314 Inches.
Concrete OFt.	BELOW TOP OF	2. Were Drilling Additives Used? Yes No X
	GRADE CASING	Revert Bentonite Water
<b>↓</b>	]	Solid Auger   Hollow Stem Auger
		3. Was Outer Steel Casing Used ? Yes 🗌 No 💢
Cement/Bentonite Grout Mix		Depth=toFeat.
Yes No X		4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to		WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement & 3 Ft. 3-5 Lb. Bentonite		I. Type of Casing: PVC X Galvanized Teflon
Powder		Stainless Other
Other: CONCRETE		2. Type of Casing Joints: Screw-Couple Glue-
		Couple Other
	<u> </u>	3. Type of Well Screen: PVC Galvanized
8 4 1/4 8 2 1		Stainless 🗍 Teflon 🗌 Other
Bentonite Seal 3 Ft.	<b>8</b>	4. Diameter of Casing and Well Screen:
Pellets Slurry	<b>8</b> 8	Casing 8 Inches, Screen 8 Inches.
		5. Slot Size of Screen: 0.040
Filter Pack 2 Ft.	<b>3</b>	6. Type of Screen Perforation: Factory Slotted
Above Screen		Hacksaw Drilled Other V-WIRE
<u> </u>	10	7. Installed Protector Pipe w/Lockz Yes No X
		WELL DEVELOPMENT INFORMATION:
1 () [4]	<del>[</del> ]	1. How was Well Developed? Bailing Pumping
FILTER PACK MATERIAL	<u>-</u> }	Air Surging (Air or Nitrogen) Other
1   1   1   1   1   1   1   1   1   1	·}	2. Time Spent on Well Development ?
Silica Sand	.]	/ 3½ @ Hours
Washed Sand 40 Ft.	• 1	3. Approximate Water Volume Removed ? 2000 Gallons
Pea Gravel [		4. Water Clarity Before Development ? Clear
Other:	.1	Turbid Opaque
	:-}	5. Water Clarity After Development ? Clear X
Sand Size 8-12	. )	Turbid Opaque
MESH E.	50	6. Did Water have Odor? Yes No X
Disco Paralles 5	.:\	7. Did Water have any Color ? Yes No 😿
Dense Phase Sampling Cup 5 5 Ft.		Id Van Dennsika
Bottom Plug Yes ⋈ No □	: 55.5 (5'blai	nk)
Overdrilled Material	7	- WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill 2.5 Ft.		During Drilling Ft. Date
Grout   Sand	58	Before DevelopmentFt. Date
Caved Material	J_ <del></del>	After Development 3.46 Ft. Date 7-23-01
Other:		the Date
Driller/Firm LAYNE	_ Drill Rig Type <u>AP</u>	-/000 Date Installed 7-18-01
Drill Crew HORMAN	Well No. PC 99	9 R3 Kerr-McGee Hydrologiet ED KRISH
Drill Grew / JOKMAN	_ WALL IND. / C 7	1 R 3 Hydrologiet ED KR15H

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIAL  KM C						7 .	NV	BORING PC 115		
DEP			UNIFIED	BLOWS				IL SAMP			
FEE		S GRAPHIC LOG	SOIL FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
5	- 5-25 SARD, V. 2 - 1000 SARD SARD V - 1000 SARD SARD SARD - 5-20 SARD SARD		5M							PREST & !! - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRESIDE - PRE	
10	8-15 made com white colored nodules to 3/									dams/net = 12-18'	
15	- 15-18 5127, 884, - w/20-3076 vfg sd		ML		ere er er er er er er er er er er er er		T-2514-744-73	DEFENSIVE IN A - 15-200 NOVE	Ondere mentalen (1965) (1975) (1975) (1975)		
	- 18-26 GRAVEL, It  Pen gravel to 1" w)  f-rc sd in matrix,  gravel 54-18	110-22/	GW							WTR @ 18' -	
24 58	Ish of reason, water gr	1-VC 1000	Andrew Andrew - Andrew	a to show a succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the succession of the		englass i stationa j general		ottada et et a escenti			
35	- land colocke nothing  28-92 GRAVEL  locally say and stry  bra, up to 6" cobble  5A, vole and 1s.  - 28-32' vole+1s to 2  10-20% vf-ve sa	5,5%	GM	7				••		- - - - - - -	
	▼ Water Table (24 Hour)			G	RAPHIC L	OG LEC	SEN		TE DRILLED	PAGE	
EXPLANATION	Water Table (Time of Boring, Photoionization Detection (pp NO. Identifies Sample by Number Sample Collection Method  SPLIT-BARREL  THIN-	m)			SILT SAND GRAVEL		IGHLY RGANI AND	C (PEAT) DR	GGED BY	CUSSION CUSSION KRISH	
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	ERR-McGEE CORPORATION lydrology Dept S&EA Division	KM SUBSIDI		ے سار		Hen	101	`:\:	h al		BORIN	G R PC 115
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IN FEET	LITHOLOGIC DESCRIPTION	N	SRAPHIC LOG	SOIL FIELD CLASS.	PER 6'	(ppm)	NO.	YPE	DEPT		REC.	REMARKS OR FIELD OBSERVATIONS
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EXPLANATION	BARREL		ORE		1	GRAVEL		CLA SAN	YEY	LOG	GED BY	KRIST!
	THIN- WALLED TUBE CONTINUOUS SAMPLER		O ECOVER	RY	<b>S</b>	SILTY CLAY				EXIS	TING GRAD	DE ELEVATION (FT. AMSL)
	DEPTH Depth Top and Bottom of So REC. Actual Length of Recovered	ample Sample in	Feet			CLAYEY SILT		-	<del></del>	LOC	ATION OR	GRID COORDINATES

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division	KM SUBSIDIARY	LLC		LOCATION HENT	 SERS	0 V	) , NV	V BORING PC 115R		
DEP1		10	MAURIED			1	==	OIL SAMP	<del></del>		
IN FEE		GRAPHI LOG	SOIL FIELD CLASS.	PER 6'	(ppm)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS	
	- 0-5 SANT, brn, r - W/ 10-20/ silt	n-VC	5M							0-4 damp -	
9	5-9 Gravel, sdy, sand 10-30%; gra mostly 1/4-1"	f-vc 0000	GP							4-9 wet _	
15	9-27 SAND, slty minor interbedded s silt, trn, vf-m Varying silt 20-5	dy	i sm							9-25 dampt	
20	ZZ-24 Can. 5 d Size  Caliche nodules									======================================	
35	27-44 Gravel, s W/minor local SH layers Series of fining-u channel deposits Gravel, volc, SA-SR, W/minor 4-8" Sand 20-60% vf-1 Silt 10-30% locally	pward   0.00	7								
	Water Table (24 Hour)				RAPHIC			1	7-18	-01 PAGE of Z	
EXPLANATION	V Water Table (Time of Boring Photoionization Detection (p NO. Identifies Sample by Number Sample Collection Method  SPLIT. BARREL AUGER  THIN. WALLED TUBE  DEPTH Depth Top and Bottom of S	ROCK CORE NO RECOV			CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		HGHL DRGA SAN CLA	Y MC (PEAT) ON LC	RILLING METH PE) RILLED BY LA> DOGGED BY ED  XISTING GRAIN		
	REC. Actual Length of Recovered			·							

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C LLC			<u> </u>		LOCATION HEND	E R.S 7	, J	BORII	BORING PC 115R	
DEPTH				UNIFIED	BLOWS			SOIL SA	MPLE	DEMARKS OR	
IN FEET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	PER 6'	(bbw)	NO. 3			REMARKS OR FIELD OBSERVATIONS	
-			2:0.0 0:0 à.								
44-	44-50 Gravel, so if brn, inc in 1sp and caliche nodule no ly cobbles as abo	ebbles -S	16000000000000000000000000000000000000	GW						- - - - -	
50-	(max z")  50-58 CLAY, stagenis  grnish + blue grnis	ly L	1-4-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	CL						MC@ 50 -	
58 -	TD 58										
EXPLANATION		pm) er	ROCK CORE NO RECOVER	RY		CLAY SILT SAND GRAVEL SILTY CLAYEY SILT		EBRIS LL GHLY RGANIC (PEAT)	LOGGED BY	8-01 Z of Z	

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT									
		ATION DIAGRAM							
Protective Pipe	Casing Cap Vent	t? Yes 🗌 No 🗹							
Yes No 🛛	Lock ? Yes								
Steel PVC	Weep Hale? Ye	18 [ No [X]							
Surveying Pin ?	Concrete Pad	Ft. xFt. xInches							
Yes No X	2V2	DRILLING INFORMATION:							
	DEPTH FROM	1. Borehole Diameter= /31/4 Inches.							
Concrete O Ft.	BELOW TOP OF GRADE CASING	2. Were Drilling Additives Used ? Yes . No 🔀							
	2	Revert Bentonite Water							
		Salid Auger   Hollow Stem Auger							
1 1 1 1 1		3. Was Outer Steel Casing Used ? Yes No No							
Cement/Bentonite Grout Mix		Depth=toFeet.							
Yes No X		4. Borehole Diameter for Outer CasingInches.							
5.5 Gallons Water to 94Lb. Bag Cement & 3 Ft.		WELL CONSTRUCTION INFORMATION:							
3-5 Lb. Bentonite		I.Type of Casing: PVC Galvanized Teflon							
Other: CONCRETE		Stainless Other							
		Couple Other							
	5	3. Type of Well Screen: PVC 🔯 Galvanized 🗌							
		Stainless Teflon Other							
Bentonite Seal 3 Ft.		4. Diameter of Casing and Well Screen:							
Pellets Slurry -	8	Casing Z Inches, Screen Z Inches.							
		5. Slot Size of Screen: 0.040							
Filter Pack Above Screen Z Ft.		6. Type of Screen Perforation: Factory Slotted							
Addre Screen	,	Hacksaw Drilled Other V-WIRE							
<u> </u>	10	7. Installed Protector Pipe w/Lock: Yes No No							
		WELL DEVELOPMENT INFORMATION:  1. How was Well Developed ? Bailing   Pumping							
		Air Surging (Air or Nitrogen) Other							
FILTER PACK MATERIAL		2. Time Spent on Well Development?							
Silica Sand		/3'/2_ Minutes/Hours							
Washed Sand 🛛 _ 40 Ft. [ 급 ::		3. Approximate Water Volume Removed 12000 Gallons							
Pea Gravel □		4. Water Clarity Before Development ? Clear							
		Turbid Opaque							
Other:		5. Water Clarity After Development ? Clear							
Sand Size 8-12		Turbid Opaque							
MESH =	50	6. Did Water have Oder? Yes No							
		1f Yes, Describe							
Dense Phase Sampling Cup 5.5 Ft.	(=11)	If Yes . Describe							
Bottom Plug Yes No	55.5 (5'blank)	WATER LEVEL INFORMATION:							
Overdrilled Material		Water Level Summary (From Top of Casing)							
Backfill Z.5 Ft.		During Drilling Ft. Date							
Grout Sand	5.8	Before DevelopmentFt. Date							
Caved Material		After Development 5.46 Ft. Date 7-24-0							
Other:									
	Drill Rig Type A P-/								
Drill Crew P. HORMAN	Well No. PC 1/3	R Kerr-McGee ED KR15+1							

	RR-McGEE CORPORATION drology Dept S&EA Division	KM SUBSIDIA	free f			HEND	ERSC	SN	, NV	BORING PC 116		
DEPTH	LITHOLOGIC DESCRIPTION			분을 UNIFIED		PID		SC	DIL SAN	<b>NPLE</b>	REMARKS OR	
FEET	LITHOLOGIC DESCRIPTION	אכ	GRAPHIC LOG	FIELD CLASS.	PER 6"	(ppm)	NO.	TYPE	DEPTI	REC.	FIELD OBSERVATIONS	
_	0-3 GRAVEL, SAY	hally,	6.00									
4	brn: 70% vote, sams			GY.							more of E.L	
3 -	1 1 1 66 kg do 2" w/ 20	16 YEAVE	<u>्रे</u> (हैं।	And of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the 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又	- Water Table (Time of Boring	1)						DEBF FILL		5-17.	1	
PIE	Photoionization Detection (p	pm)			}			FILL		DRILLING MET		
1		•				SILT	$\simeq$	ORGAN	#C (PEAT)	DRILLED BY	CCNIZION	
	SPLIT- AUGER	RC	CK			SAND		SAN CLA	DY ′	LA	YNE	
EXPLANATION	BARREL					GRAVEL	\\ \( \)	CLAY	YEY [	LOGGED BY	KRISH	
	THIN- WALLED CONTINUOUS				<b>SS</b>			2714	L	E D	DE ELEVATION (FT. AMSL)	
	TUBE	RE	COVER	Υ	1				— [			
	PTH Depth Top and Bottom of Se	_			LINN	CLAYEY SILT			l h	OCATION OR	GRID COORDINATES	

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KM C L L C				HENT	DER1	- N N	√ BORI	BORING PC116		
DEPT	H UTUOLOGIA DESCRIPTIO		UNIFIED SOIL FIELD CLASS.	BLOWS	PID		SOIL SA				
FEE	LITHOLOGIC DESCRIPTIO	GRAF	FIELD	6'	(ppm)	NO.	DEP1	TH REC.	REMARKS OR FIELD OBSERVATIONS		
45- 47 50-	- 47-55 CLAY and SI Clay, Root traces of gyp xtals	9-0 5-0	GM				ar artist on the sa		MC @ 471 -		
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	Water Table (24 Hour)  Water Table (Time of Boring PID Photoionization Detection (pp NO. Identifies Sample by Number TYPE Sample Collection Method	om)		9777	CLAY			DRILLING ME	of		
EXPLANATION	SPLIT- BARREL AUGER	ROCK			SAND GRAVEL		ANDY CLAY CLAYEY SAND	LOGGED BY			
<del> </del>	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RECOVER	Y		SILTY CLAY			EXISTING GR	RADE ELEVATION (FT. AMSL)		
	DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet				CLAYEY SILT		·	LOCATION O	R GRID COORDINATES		

		R-McGEE CORP Drology Depai	
			LATION DIAGRAM PLUSH
Protective Pipe		Casing Cap V	/ent ? Yes No No
Yes No		Lock ? Yes	□ No □
Steel PVC		Weep Hole ?	Yes No
Surveying Pin ?	Ft.	Concrete Pag	dFt.xFt.xInches
Yes No D	·		DRILLING INFORMATION:
		DEPTH	I. Borehole Diameter= //-5_ Inches.
0	3 Ft.	BELOW TOP OF	2. Were Drilling Additives Used? Yes No
Concrete VALUE		GRADE CASING	Revert Bentonite Water
A bot a bot a		3	Solid Auger   Hollow Stem Auger
			3. Was Outer Steel Casing Used ? Yes No
Cement/Bentonite Grout Mix			Depth=toFeet.
Yes 🖄 No 🗌			4. Borehole Diameter for Outer Casing Inches.
5.5 Gallons Water to			WELL CONSTRUCTION INFORMATION:
94Lb. Bag Cement &	Ft.		I. Type of Casing: PVC Galvanized Teflon
3-5 Lb. Bentonite Powder			Stainless Other
Other:			2. Type of Casing Joints: Screw-Couple 🔯 Glue-
			Couple Other
		8	3. Type of Well Screen: PVC 🛛 Galvanized 🗌
		<b>#</b>	Stainless Teflon Other
Bentonite Seal	Ft.₩		4. Diameter of Casing and Well Screen:
Pellets X Slurry -		<b>₩</b> 10	Casing 6 Inches, Screen 6 Inches.
		<b>*</b>	5. Slot Size of Screen: 0,040
Filter Pack	Ft.		6. Type of Screen Perforation: Factory Slotted 🗵
Above Screen			Hacksaw Drilled Dother
			7. Installed Protector Pipe w/Lock: Yes 🗌 No 🗍
			WELL DEVELOPMENT INFORMATION:
		·	I. How was Well Developed? Bailing 🗌 Pumping 🔲
C" TED DACK MATERIAL		\(\frac{1}{2}\)	Air Surging (Air or Nitrogen) 🛛 Other
FILTER PACK MATERIAL		∴}	2. Time Spent on Well Development ?
Silica Sand		, • • • • • • • • • • • • • • • • • • •	//
Washed Sand 🗌 _	35_ <b>ft</b> 引 目		3. Approximate Water Volume Removed ? Gallone
Pea Gravel			4. Water Clarity Before Development ? Clear 🔲
		. :	Turbid 🗹 Opaque 🗌
Other:		44 <b>)</b>	5. Water Clarity After Development ? Clear 🔯
Sand Size Sx 12		. }	Turbid Dopaque
Jano Oizo	↓   目	A con	6. Did Water have Odor? Yes No
	1 -   -		— If Yes, Describe
Dense Phase Sampling Cu	95.3 Ft.(	A:	7. Did Water have any Color ? Yes No 🔯
Bottom Plug Yes No	1 4-4	S2.3	
Overdrilled Material		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)
Backfill	2.7 Ft.	İ	During Drilling Zo Ft. Date 5-17-01
Grout Sand		55	Before Development 6.90 Ft. Date 5.18-01
Caved Material			After Development Ft. Date
Other:			
Driller/Firm MARTIA	LLAYNE	Drill Rig Type AP	OCC Date Installed 5-25-01
Drill Crew Jose / De	) Al	Well No. FC	Kerr-McGee Hydrologist
1		<del></del>	

		RR-McGEE CORPORATION trology Dept S&EA Division	KM SUBSIDI		_L C		LOCATION HE	NDE	R.	507	BORING PC 116 R		
DEP		HTHOLOGIC PECCHIOTIO		APHIC 10G	UNIFIED SOIL		PID		sc	DIL SAMPI	.E	REMARKS OR	
FEE		LITHOLOGIC DESCRIPTIO	N	GRAI	FIELD CLASS.	PER 6'	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
		0-10 GRAVEL, S and SAND, growel interbeolded. Mind sity layers. Brn	ly Thin	00000	1		_					dampel' -	
5 10		50-80% gran → Z. 10-30% silt in say ma 20-50% vf-vc, SA	"peb. Hrix	000000000000000000000000000000000000000	SW							Wet Z - 18' -	
		brn, vf-cg, 5AND, 10-3070 silt in mad locally com. sd-signalist collices	rrik		5M								
18 20	$\dashv$	18-20 SILT, Sdy, gr Com calche nods, 20-30; 20-27 SAND, SI+	ygrn, svt-fed		ML	,						damp -	
27		brn. vf-mg w/mi c-vc. zo-30/ si matrix	nor lt in		5M							WTR @ Zo' -	
	- - - -	Z7-49 GRAVEL, W/minor gravelly s and silty sand. Pa (Series of fining-up 70% volc+1s. granu cobbles. Z0-30% f and thin layers w/ silt in sdymatrix Z7-38 pea gravel	and lebrn seq.)	0.0000000000000000000000000000000000000	GP/								
				00.0									
	Y V	,	,				RAPHIC I			IND	TE DRILLED	1 7	
TION	PII	D Photoionization Detection (p) D. Identifies Sample by Numbe	pm)						HIGH! ORGA	Y NNC (PEAT)	ILLING MET		
EXPLANATION	X	SPLIT- BARREL AUGER		OCK ORE			SAND GRAVEL			AD LO	E	D KRISH	
<b>4</b>	DE R	WALLED TUBE CONTINUOUS SAMPLER  EPTH Depth Top and Bottom of Sc EC. Actual Length of Recovered	ample .	Feet	RY	1	SILTY CLAY CLAYEY SILT					DE ELEVATION (FT. AMSL) GRID COORDINATES	

	KERR-McGEE CORPORATION Hydrology Dept S&EA Division  KM SUBSIDIARY  KMC LLC						LOCATION HENT	DEKS	٥٢	) , NV	V BORING PC 116R	
DEP				E.	UNIFIED	BLOWS			===	OIL SAMP		OCHARKE OR
FEE		LITHOLOGIC DESCRIPTION	DN	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	PER 6'	(bbw)	NO.	TYPE	DEPTH	REC.	REMARKS OR FIELD OBSERVATIONS
		38-49 com. cobb	1=5 +0	'0'.0								-
45				0.0000000	GP GM							
		19-58 CLAY & SIT Clay, w/root tra sm. gyp x tols. gree and blue green	ces &	1/4/4/	СГ							MC@49, -
58	, <u> </u>			1/						and the second of the second of		
		TD 58'					GRAPHIC GRAPHIC	106.15		NO TO	ATE DRILLED	PAGE
EXPLANATION	PID NO. TYPE	Water Table (Time of Borin Photoionization Detection (p Identifies Sample by Numb Sample Collection Method SAMPLER  CONTINUOUS SAMPLER  THIN-WALLED CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CONTINUOUS SAMPLER  THE CO	pm) er  R  R	OCK ORE IO ECOVE	RY		CLAY SILT SAND GRAVEL SILTY CLAY CLAYEY SILT		HIGHL ORGA SAN CLA	Y DF LCC	E O	V5510N NE

KERR-McGEE CORPORATION									
HYDROLOGY DEPARTMENT  MONITORING WELL INSTALLATION DIAGRAM									
	Casing Cap Ve								
	Lock ? Yes	, \							
		Yes O No O							
Steel PVC 2.0 Ft.									
Yes No X	Concrete Pag	Ft. xFt. xInches							
	DEPTH	DRILLING INFORMATION:							
	FROM BELOW TOP OF	I. Borehole Diameter= 13/4 Inches.							
Concrete O Ft.	GRADE CASING	2. Were Drilling Additives Used? Yes No							
	2	Revert							
		3. Was Outer Steel Casing Used ? Yes No							
Cement/Bentonite Grout Mix  Yes □ No ☑		Depth=toFeet.  4. Borehole Diameter for Outer Casing Inches.							
5.5 Gallons Water to									
94Lb. Bag Cement &		WELL CONSTRUCTION INFORMATION:  1. Type of Casing: PVC  Galvanized  Teflon							
3-5 Lb. Bentonite Powder		Stainless Other							
Other: CONCRETE		2. Type of Casing Joints: Screw-Couple Glue-							
		Couple Other							
	<u> </u>	3. Type of Well Screen: PVC 📈 Galvanized 🗆							
		Stainless 🗍 Teflon 🗌 Other							
Bentonite Seal 3 Ft.		4. Diameter of Casing and Well Screen:							
Pellets Slurry	8	Casing 8 Inches, Screen 8 Inches.							
		5. Slot Size of Screen: 0.040							
Filter Pack 2 Ft.		6. Type of Screen Perforation: Factory Slotted							
Above Screen	*	Hacksaw Drilled Other_V-WIRE							
	10	7. Installed Protector Pipe w/Lock: Yes No							
		WELL DEVELOPMENT INFORMATION:							
		I. How was Well Developed ? Bailing   Pumping   Air Surging (Air or Nitrogen)   Other							
FILTER PACK MATERIAL		SURGE BLOCK							
Silica Sand		2. Time Spent on Well Development?							
		/3'/z_ Minutos/Hours							
Washed Sand		3. Approximate Water Volume Removed 7 Zooo Gallons							
Pea Gravel 🗆		4. Water Clarity Before Development ? Clear 🗍 Turbid 🔀 Opaque 🗍							
Others } . =		5. Water Clarity After Development ? Clear 🔀							
Sand Size 8X/Z		Turbid Opaque 🗌							
MESH	50	6. Did Water have Oder ? Yes No X							
		- If Yes, Describe							
Dense Phase Sampling Cup 5 5 Ft.		7. Did Water have any Color ? Yes No 🛛							
Bottom Plug Yes No	55.5 (51 blan)	k) If Yes , Describe							
Overdrilled Material Backfill Z.5 Ft.		WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)  During Drilling							
Grout Sand 🔀	1								
Caved Material	58	Before Development 4.20 Ft. Date 7-27-01							
Other:		After Development Ft. Date							
Driller/Firm LAYNE	Drill Rig Type AP /	1000 Date Installed 7-26-01							
Drill Crew P. HORMAN	Well No. PC1/6	Kerr-McGee ED KR15H							

KE Hydro	RR-McGEE CORPORATION logy Dept.	KM SUBSIDIA		.LC		LOCATION	J DA	0 2 SV	N	BORING NUMBER PC VIT		
DEPTH					BLOWS				SAMPLI	! E	REMARKS OR	
FEET	LITHOLOGIC DESCRIPTION	М	98. 100.	UNIFIED SOIL FIELD CLASS.	PER FOOT	(ppm)	NO.	TYPE	DEPTH	REC.	FIELD OBSERVATIONS	
4	sly, pebbler +	a Zr	Signatura de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maranesta de Maran		essenej wolke til fiss i skolled		and the designation for	and the same of the same of	ny arakamanakan'i kwa nisakiriki	ng ngga na kingga na anna kingga na	LOCATED - 100/5 of - PC 116R -	
10	4-10 SAND, gra in/20/14.14, 30% up to 2"			58/ 5m	ÿ					The-	WATER 22"	
110	10-16 SAND SI VE YN W/MMON CO 20/10 81/4			\$ 114			·			4	10-16: dams -	
20	16-20 SILT, 5de ZeZVF-fggd, Ca 5d size caliche no	aules	1800, No. 1814, 1887 - 1816 (180	ML	Sufficient (17) Philosophyl (17)							
	20-25 SAND : 20% SIH, VF- m. W/1 2-VC.	141		5M							wet @ 201 -	
35-	25-51 GREVEL  locally Say / Styll  Clone W/ Water,  C-Zefe gilt, D-B  VF-VE Ja  Abu volc. grandle  local cobbles to	mannly other	обобъечесто анам	σM			and an entire for the second		eren eretike e dee			
40											-	
모	Water Table (24 Hour)	۸				RAPHIC L			7	DRILLED		
PID NO	<ul> <li>Identifies Sample by Number</li> </ul>	om)				SILT		DEBRIS FILL HIGHLY DRGANIC (F SANDY	PEAT) DRIL	LING METH	mme k	
EXPLANATION STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STAT	SPLIT- BARREL AUGER	RO CO	CK PRE			SAND GRAVEL		SANDY CLAY CLAYEY SAND	LOGG	GED BY	TYNE	
<b>X</b>	THIN- WALLED WALLED SAMPLER CONTINUOUS	NC REG	) COVER	<b>Y</b>			ا لاحد	DAND	ł	C. TING GRAD	E ELEVATION (FT. AMSL)	
DEF RE	PTH Depth Top and Bottom of Sc C. Actual Length of Recovered	لاـــا mple				CLAYEY			LOCA	ATION OR G	SATANKROOD DIRE	

Ну	KERR-McGEE CORPORATION Hydrology Dept.  KM SUBSIDIARY KM CLLC			N	CATION LENTO	erao J	BO NU	BORING NUMBER PC 1		
DEP	N LITHOLOGIC DESCRIPTIO	GRAPHIC	UNIFIED SOIL FIELD CLASS.	BLOWS PER	PID ppm) ,	Twi	SAMPLE DEPTH RE	REMARKS OR FIELD OBSERVATIONS		
45		men stormer all was supported to the same and	GM			NO   1	DEPTH RE			
	TD 57.5 PEET									
					-					
EXPLANATION	Water Table (24 Hour)  Water Table (Time of Boring) PID Photoionization Detection (pp NO. Identifies Sample by Number TYPE Sample Collection Method  SPLIT- BARREL  THIN- WALLED TUBE  DEPTH Depth Top and Bottom of Sa REC. Actual Length of Recovered S	ROCK CORE NO RECOVE		GRA  CLA  SILT  GRA  SILT  GRA  SILT  GRA  SILT	Y ND AVEL Y	G LEGEND DEBRIS FILL HIGHLY ORGANIC (I SANDY SANDY SANDY SANDY	DRILLING I  DRILLED B  LOGGED B  EXISTING	S-03 2 of Z  METHOD  HAMMER  -AYNE		

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT										
MONITORING WELL INSTALLATION DIAGRAM										
Protective Pipe	* *** ***			Casing Cap	P Vent ? Yes 🔲 No 🏋					
Yes 🔲 No 🔟	1	1	引_	Lock ? Ye	8 🔲 No 🖆					
Steel PVC		1	٦ [	Weep Hole	? Yes 🗌 No 🔯					
Surveying Pin ?	Ft.			Concrete F	PadFt. xFt. xInches					
Yes 🔲 No 🗵	10 16 1 4 1		1	7.73	DRILLING INFORMATION:					
				DEPTH FROM						
Concrete Vault _				BELOW TOP O GRADE CASIN	F a ware Dailling Additives lised? Yes No No					
	[ ]				Depth=toFeet.					
Cement/Bentonite Grout Mix										
Yes No No					4. Borehole Diameter for Outer Casinginches.					
5.5 Gallons Water to 94Lb. Bag Cement & 3-5 Lb. Bentonite Powder	<u></u> Ft.				WELL CONSTRUCTION INFORMATION:  1.Type of Casing: PVC G Galvanized Teflon Stainless Other					
Other: CONCRETE					2. Type of Casing Joints: Screw-Couple Glue-					
					Couple Other					
	1			5	3. Type of Well Screen: PVC Galvanized					
Bentonite Seal	<b>1 8</b>				Stainless Teflon Other					
	4 Ft.				4. Diameter of Casing and Well Screen:					
Pellets Slurry 🗌	<u> </u>			9	Casing   Inches, Screen   Inches.					
Fliter Pack					5. Slot Size of Screen: 0,040					
Above Screen	2 Ft.			•	6. Type of Screen Perforation: Factory Slotted □ Hacksaw □ Drilled □ Other <u>VEE-WIRE</u>					
				î jî	7. Installed Protector Pipe w/Lock: Yes No					
	1	<b>*  </b> -	<u>.</u>		WELL DEVELOPMENT INFORMATION:					
	<b>†</b> •	·F	3		1. How was Well Developed? Balling Dumping					
	1	·	1		Air Surging (Air or Nitrogen) Other					
FILTER PACK MATERIAL	<b>\</b>	F	<b>]</b>		2. Time Spent on Well Development ?					
Silica Sand 🔯		: <b> </b>	1		/					
Washed Sand 🗌 _	40 Ft.	: F	<u> </u>		3. Approximate Water Volume Removed ? 1000 Gallons					
Pea Gravei	-	. F	<u>-</u>		4. Water Clarity Before Development? Clear					
	}	···E	]		Turbid Opaque					
Others	}	:  =	<b> </b>  ::		5. Water Clarity After Development? Clear					
Sand Size 3-12	1	E	1	{	Turbid Deague D					
	1	Ė	‡	51	6. Did Water have Odcr ? Yes No 🔯					
D Div O		.::I <sup>-</sup>	1:::		7. Did Water have any Color ? Yes No No					
Dense Phase Sampling Cup  Bottom Plug -	Ft.	$\cdot \parallel$	:::		if Yes . Describe					
Yes No		t	<b>.</b>	53	WATER LEVEL INFORMATION:					
Overdrilled Material					Water Level Summary (From Top of Casing)					
Backfill	3.5 Ft.			1	During Drilling $Z = 0$ Ft. Date $Z = 15 = 0.3$					
Grout Sand	•			57.5	Before DevelopmentFt. Date					
Caved Material			~ ·- ·		After Development 4.50 Ft. Date 2-20-03					
Others	11-656	/ / osite		^ 6	2 (0.00) And 1-1-11-1 9 - 1/a = 02					
Driller/Firm PERRY					Kann-McGaa					
Drill Crew MARCO	<u> </u>			Well No. 72	Kerr-McGee Hydrologist ED KRISH					

Hydroļ	RR-McGEE CORPORATION logy Dept. Engineering Services	KM SUBSIDIA	ر ا			HENT	DE R	56	on r	11	BORIN NUMB	ER PC 118
EPTH IN EET	LITHOLOGIC DESCRIPTIO	N	GRAPHIC LOG	UNIFIED SOIL FIELD CLASS.	BLOWS PER FOOT	PID (ppm)	NO.	Z S	DEP		REC.	REMARKS OR FIELD OBSERVATION
4	C-15 SAND, SIL											1
$\exists$	W/ minor peg gran	red.				-						water E
1	300ms, vf. vegs											And the second second
				SM								
-					-					l		DRILLED
7	•											12 FT NORT
_					-							OF PC 115
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4												
+					-							
		N WASSELFACE	S. A. Charles	and the second	-							
	15-18 SILT, SAy.	20-					a di di di di di di di di di di di di di	THE PERSON NAMED IN	mere Alle Envenir	-02.76, April (1909)	Pleasure of the suite statement	dereiche zu dereichte der dereiche und eine eine Staßen gegen dereiche der Verlandereiche der Verlandereich fe
3 -	30% vf.mgsd			ML	-							
~ 1	18-26 GRAVEL, SI	da.	to trinkin street coming	uh Dikus siku sukuku ku jeleg	· · · · · · · · · · · · · · · · · · ·	entalem en en discression qui per	Martin Libera, maring page	.www.co	Samuel Estino (1 a de 12 de 1900)	CARL LABORATORS LIN	a - Procedure - Page Cally	MCC 2017 Meio, see Carlle (the 1996 the more Committed (the Carles and action come also at the Material Science Carlle (the Carles Carles Carlle (the Carles Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle Carlle
	(20-30/e) w/ local 5				-							<u>-</u>
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PID NO.	Photoionization Detection (ppm Identifies Sample by Number	n) ·							- 1	DRILLIN	IG METHO	
TYPE	Sample Collection Method				SII					ORILLE	O BY	MMER
	SPLIT- BARREL AUGER	ROC	K		SA		S	AND LAY	Y			1716
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DEC	<ul><li>TH Depth Top and Bottom of Sam</li><li>Actual Length of Recovered Sa</li></ul>	ple mole in F	eet	1	SII SII	T	$\sqcup \! \! \! \! \! \perp$			OCATI	ON OR GF	RID COORDINATES

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT							
	WELL INSTALLATION DIAGRAM						
Protective Pipe	Casing Cap Vent ? Yes   No						
Yes No 🛛	Lock ? Yes No 🔟						
Steel PVC	Weep Hole ? Yes No 🔎						
Surveying Pin ?	Concrete PadFt. xFt. xInches						
Yes No 🗵	DRILLING INFORMATION:						
	DEPTH FROM 1. Borehole Diameter= 13-14 Inches.						
Concrete VAULT 2 Ft.	BELOW TOP OF Q Ware Calling Additives lised? Yes No 🕅						
Concrete VAULT Ft. [1]	GRADE CASING 2. Were Drilling Additives 5555.						
	Solid Auger   Hollow Stem Auger						
	3. Was Outer Steel Casing Used? Yes No 🔯						
Cement/Bentonite Grout Mix	Depth=toFeet.						
Yes No	4. Borehole Diameter for Outer Casinginches.						
5.5 Gallons Water to	<b>8</b> (						
94Lb. Bag Cement & Ft.	WELL CONSTRUCTION INFORMATION:  1. Type of Caeling: PVC Galvanized Teflon T						
3-5 Lb. Bentonite Powder							
Others	Stainless Other						
CONCRETE	Couple Other						
	3. Type of Well Screen: PVC Galvanized						
<b>★</b>	Stainless Teflon Other VEE WIRE						
Bentonite Seal	4. Diameter of Casing and Well Screem						
Pellets 🗵 Slurry 🗆 💮	Casing Inches, Screen Inches.						
	5. Slot Size of Screen: 0.040						
Filter Pack	6. Type of Screen Perforation: Factory Slotted						
Above Screen Ft.	Hacksaw Drilled Dther						
	7. installed Protector Pipe w/Lock: Yes No						
	WELL DEVELOPMENT INFORMATION:						
	I. How was Well Developed? Balling 🔲 Pumping 🔯						
	Air Surging (Air or Nitrogen) Other						
FILTER PACK MATERIAL	2. Time Spent on Well Development ?						
Silica Sand	/Minutes/Hours						
Washed Sand	3. Approximate Water Volume Removed ? / Gallons						
	4. Water Clarity Before Development? Clear						
Pea Gravel	Turbid Opaque						
Other:	5. Water Clarity After Development? Clear						
	Turbid Opaque						
Sand Size 8-/2	6. Did Water have Oder? Yes No						
	If Yes, Describe						
Dense Phase Sampling Cup	7. Did Water have any Color? Yes 🗌 No 🔯						
Bottom Plug	If Yes , Describe						
Yes No D	WATER LEVEL INFORMATION:						
Overdrilled Material Backfill Ft.	Water Level Summary (From Top of Casing)						
Backfill / Ft.   Grout □ Sand ⊠	During Drilling Z-0 Ft. Date Z-16-03						
Caved Material	Before DevelopmentFt. Date						
Others	After Development Ft. Date _ 2-20-09						
Driller/Firm PERRY /LAYNE	Drill Rig Type AP 1000 Date Installed Z-17-03						
	Kerr-McGae						
Drill Crew MARCO BO	Well No. PC 118 Hydrologist ED KRISH						

KERR-McGEE CORPORATION Hydrology Dept.  KM BUBSIDIARY  KW C L L C				HENDERSON, NV			JV BOR	BORING PC 119	
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	THIN- WALLED TUBE CONTINUOUS SAMPLER	NO RE	COVER	ťΥ	<b>ESS</b>		$\Box_{-}$		1	DE ELEVATION (FT. AMSL)	
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KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT							
	MONIT				LATION DIAGRAM		
Protective Pipe					/ent ? Yes 🔲 No 🖫		
Yes 🔲 No 🖾			<u> </u>	Lock ? Yes (	□ No ဩ		
Steel PVC					Yes 🔲 No 🔯		
Surveying Pin ?	Ft.	$\parallel \parallel \parallel$		Concrete Pac	ft. xFt. xFt. xInches		
Yes No 🗵	0.¥, ¢,		P	DEPTH	DRILLING INFORMATION:		
				FROM	1. Borehole Diameter= 15.25 Inches.		
Concrete VAULT	2Ft.		BEL GRA		2. Were Drilling Additives Used ? Yes No 🗵		
			2		Revert		
	1		·		3. Was Outer Steel Casing Used? Yes No 🗵		
Cement/Bentonite Grout Mix					Depth=toFeet.		
Yes No					4. Borehole Diameter for Outer Casing Inches.		
5.5 Gallons Water to					WELL CONSTRUCTION INFORMATION:		
94Lb. Bag Cement & _ 3-5 Lb. Bentonite	Ft.\				I. Type of Casing: PVC Galvanized Teflon		
Powder			1		Stainless Other		
Other: Contrett					2. Type of Casing Joints: Screw-Couple 🔯 Glue-		
			7		Couple Other		
	1	<b>88</b>	₩ —		Stainless M Teffon Other VEE-WIKE		
Bentonite Seal	] 				4. Diameter of Casing and Well Screens		
Pellets Slurry 🗌			₩		Casing S Inches, Screen S Inches.		
· · · · · · · · · · · · · · · · · · ·		<b>88</b>	<b>X</b>		5. Slot Size of Screens 0.040		
Filter Pack	Ft.			•	6. Type of Screen Perforations Factory Slotted 🖾		
Above Screen _	<u> </u>				Hacksaw Drilled Other		
			/ / 5	4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7. installed Protector Pipe w/Lock: Yes No		
	1				WELL DEVELOPMENT INFORMATION:		
		: [3]			1. How was Well Developed ? Balling Pumping T		
FILTER PACK MATERIAL		∷⊟	: {		Air Surging (Air or Nitrogen) Other		
Silica Sand		: 남			2. Time Spent on Well Development ?		
Washed Sand	30 Ft.	:   크	` . <b></b>		3. Approximate Water Volume Removed ? / Gallons		
Pea Gravel		.  크	`		4. Water Clarity Before Development ? Clear		
	1 }	一日			Turbid Opaque		
Others			$\cdot \cdot \cdot \cdot$		5. Water Clarity After Development ? Clear 🕍		
Sand Size S-12				-03	Turbid		
		<u>=</u>	.: 4	<u> </u>	- If Yes, Describe		
Dense Phase Sampling Cup	1		· · · · · ·		7. Did Water have any Color? Yes 🗌 No 🔯		
Bottom Plug	Ft.(		a	errory	if Yes . Describe		
Yes No 🗌	-	يك	<u> </u>		- WATER LEVEL INFORMATION:		
Overdrilled Material Backfill	7 2 Ft.				Water Level Summary (From Top of Casing)		
Grout Sand	1		1 4	©h	During Drilling $3$ Ft. Date $2-18-03$ Before Development $3.45$ Ft. Date $2-20-05$		
Caved Material	<u> </u>	<b></b>	ر	i i	After Development 3.40 Ft. Date 2.21-03		
Others					At tel. Deaglobingite tr. Date		
Driller/Firm PERRY	/ God Yr	l Car	Drill R	ig Type AP			
Drill Crew Bo	MARC	Q	Well N	lo. PC 1	Kerr-McGee Hydrologist EXCISH		
L			· · · · · · · · · · · · · · · · · · ·				

Protective Pipe	KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT						
Yes   No							
State   PVC   Ft.   Wasp Hole? Yee   No   Ft.   Inches   Ft.   Inches   Ft.   Inches   Ft.   Inches   Ft.   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   Inches   I	Protective Pipe	Casing Cap Vent ? Yes No					
Surveying Pin 7	Yes No No	Lock ? Yes No 🖫					
Concrete   No	Steel PVC	Weep Hole? Yes No 🖾					
Concrete VALCE   Fit.   Bellow TOP OF GRADE   I. Borehole Diameter=   Inches.   No   CASING   SECOND TOP OF GRADE   CASING   Severe Tilling Additives Used ? Yes   No   CASING   South Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   No   Depth= to Fest.   Solid Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Hollow Steen Auger   Ho	Surveying Pin ?Ft.	Concrete PadFt. xFt. xInches					
Cement/Bentonite Grout Mix  Yes   No	Yes No 🗵						
Concrete VALUE   First   GRADE   CASING   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing   Casing		FROM 1. Borehole Diameter= 15.2 Inches.					
Cament/Bentonite Grout Mix   Yee   No   No   Sellons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Gallons Water to   S.5 Lb. Bentonite   Powder   Powder   S.5 Lb. Bentonite   Powder   S.5 Gallons Water to   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto   Gallons Pto		GRADE CASING 2. Were Drilling Additives Osed 1 166   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   146   1					
Yes		§ 1					
S.5 Gallone Water to 3-1	Cement/Bentonite Grout Mix	Depth=toFeet.					
Sand Size   Sand   Servent   Sand   Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size   Sand Size	Yes No 🖸	4. Borehole Diameter for Outer Casinginches.					
Stainless   Other   2. Type of Casing Jointers Screw-Couple   Glue-Couple   Chebr   3. Type of Well Screent PVC   Galvanized   Stainless   Tell   Casing   Inches, Screen   Inches, Stainless   Tell   Casing   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen   Inches, Screen	94Lb. Bag Cement &Ft.						
Others	Powder						
Bentonite Seal  Pellets Siurry Ft.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Fit.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Fit.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry Ft.  Pellets Siurry F	Other: CONCRETE						
Stainless   Teflon   Other   VEE   WIRC							
Pellets   Sturry	│ <sup>──</sup> ─────						
Casing   Inches, Screen   Inches, Screen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen, Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Streen   Inches, Stree	Bentonite Seal	<b>7</b>					
Filter Pack Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  A	l ———— 1884 188	8					
Filter Pack Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Ft.  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen  Filter Pack Above Screen	Feliets & Sturry						
Hacksaw   Drilled   Other   7. Installed Protector Pipe w/Lock: Yes   No   WELL DEVELOPMENT INFORMATION:   1. How was Well Developed? Balling   Pumping   Air Surging (Air or Nitrogen)   Other   2. Time Spent on Well Development?   Other   2. Time Spent on Well Development?   Other   2. Time Spent on Well Development?   Other   2. Time Spent on Well Development?   Other   2. Time Spent on Well Development?   Other   2. Time Spent on Well Development?   Other   2. Time Spent on Well Development?   Other   3. Approximate Water Volume Removed?   Opaque   Other:   5. Water Clarity Before Development?   Clear   Turbid   Opaque   Other:   5. Water Clarity After Development?   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other   Other	Filter Pack						
WELL DEVELOPMENT INFORMATION:   1. How was Well Developed? Balling   Pumping   Air Surging (Air or Nitrogen)   Other     Silica Sand	Above ScreenFt.						
Filter Pack Material   Silica Sand		7. installed Protector Pipe w/Lock: Yes 🗌 No 🔯					
Air Surging (Air or Nitrogen) Other		• • • • • • • • • • • • • • • • • • • •					
2. Time Spent on Well Development?  Washed Sand   3 Ft.   4   Minutes/Houre  3. Approximate Water Volume Removed?   3   Gallons  4. Water Clarity Before Development? Clear   Turbid   Opaque   5. Water Clarity After Development? Clear   Turbid   Opaque   6. Did Water have Odcr? Yes   No   If Yee, Describe   7. Did Water have any Color? Yes   No   If Yes , Describe   WATER LEVEL INFORMATION:  Water Level Summary (From Top of Casing)  During Drilling   Ft. Date   Ft. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date   Tt. Date		Air Surging (Air or Nitrogen) Other					
Silica Sand	FILTER PACK MATERIAL (기술)						
Washed Sand   30 Ft.   3. Approximate Water Volume Removed?   500 Gallons   4. Water Clarity Before Development? Clear   7 Turbid   Opaque   5. Water Clarity After Development? Clear   7 Turbid   Opaque   6. Did Water have Odcr? Yes   No   6. Did Water have Odcr? Yes   No   7. Did Water have any Color? Yes   No   7. Did Water have any Color? Yes   No   7. Did Water have any Color? Yes   No   7. Did Water have any Color? Yes   No   7. Did Water have any Color? Yes   No   7. Did Water have any Color? Yes   No   7. Did Water Level Summary (From Top of Casing)   8 Water Level Summary (From Top of Casing)   8 During Drilling   5 Ft. Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date   7 Date	Silica Sand						
Pea Gravei	Washed Sand   30 Ft.	3. Approximate Water Volume Removed ? 1000 Gallons					
Turbid Opaque S. Water Clarity After Development? Clear S. Water Clarity After Development? Clear S. Water Clarity After Development? Clear S. Water Clarity After Development? Clear S. Water Clarity After Development? Clear S. Water have Odder? Yes No S. If Yes, Describe  Dense Phase Sampling Cup Ft.  Dense Phase Sampling Cup Ft.  Bottom Plug Yes No S. No S. If Yes, Describe  WATER LEVEL INFORMATION:  Water Level Summary (From Top of Casing)  Water Level Summary (From Top of Casing)  During Drilling S. Ft. Date S. Pt. Date S. Pt. Date  Others  Driller/Firm Parky Layron Drill Rig Type After Development Ft. Date  Kerr-McGee	Pag Gravel						
Sand Size 8-12  Dense Phase Sampling Cup Ft.  Dense Phase Sampling Cup Ft.  Bottom Plug Yes No  Overdrilled Material Backfill  Grout Sand During Drilling Ft. Date 2-21-0:  Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material Caved Material							
Sand Size 6. Did Water have Odcr? Yes No If Yes, Describe  7. Did Water have any Color? Yes No If Yes, Describe  7. Did Water have any Color? Yes No If Yes, Describe  WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing)  Backfill  Grout Sand Describe  During Drilling Ft. Date Z-19-03  After Development Ft. Date  Driller/Firm Parky / Layne Drill Rig Type After Development Z-19-03  Kerr-McGee	Others						
Dense Phase Sampling Cup  Ft.  Bottom Plug Yes No No WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Backfill  Grout Sand S  Caved Material Before Development Others  Driller/Firm Parky LAYNG  Drill Rig Type  Ft. Date 19-03  Kerr-McGee	Sand Size 8-12	C Did Water have Oder? Yes No Ex					
Dense Phase Sampling Cup  Ft.  Bottom Plug Yes No No WATER LEVEL INFORMATION:  WATER LEVEL Summary (From Top of Casing)  Backfill  Grout Sand S  Caved Material Before Development Ft. Date  Others  Driller/Firm Parky / Layne Drill Rig Type A 1000 Date Installed Z-19-03  Kerr-McGee		.1					
Bottom Plug Yes No No WATER LEVEL INFORMATION: Water Level Summary (From Top of Casing) Backfill Grout Sand S Caved Material Others  Driller/Firm FERRY / LAYNG Drill Rig Type AF 1000 Date Installed Z-19-03 Kerr-McGee	Dense Phase Sampling Cup						
Ves No   WATER LEVEL INFORMATION:  Overdrilled Material   Water Level Summary (From Top of Casing)  Backfill   Ft.   During Drilling   Ft. Date   Z-19-03    Caved Material   After Development   Ft. Date   During Driller/Firm   Parky / Layne   Drill Rig Type   After Development   Z-19-03    Nater Level Summary (From Top of Casing)  Before Development   Ft. Date   Z-21-03    After Development   Ft. Date   During Driller/Firm   Parky / Layne   Drill Rig Type   After Development   Z-19-03    Kerr-McGee		• )					
Backfill   Ft. Date   Z-19-03   Grout   Sand   Before Development   Ft. Date   Z-21-03   Caved Material   After Development   Ft. Date   Z-21-03   Others   Driller/Firm   Parkey   Layne   Drill Rig Type   After Development   Z-19-03   Kerr-McGee		WATER LEVEL INFORMATION:					
Others Parky /LAYNE Drill Rig Type AF 1000 Date Installed Z-19-03  Kerr-McGee		Water Level Summary (From Top of Casing)					
Others Parky /LAYNE Drill Rig Type _AF 1000 Date Installed Z-19-03 Kerr-McGee		During Drilling Ft. Date					
Others Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date Ft. Date	•						
Kerr-McGee		After Development Ft. Date					
Drill Crew Bo IMARCO Well No. PC 120 Hydrologiet ED KRISH	Driller/Firm PERRY /LAYNE						
	Drill Crew By MARCO	Well No. PC 120 Hydrologist ED KRISH					

**SOIL BORING LOG** KM SUBSIDIARY BORING NUMBER KERR-McGEE CORPORATION HENDERSON, NY Hydrology Dept. UNIFIED BLOWS SOIL SAMPLE DEPTH REMARKS OR FIELD OBSERVATIONS PID SOIL FIELD CLASS. PER FOOT LITHOLOGIC DESCRIPTION IN (ppm) DEPTH REC. NO. 0-9 SAND, si. wite SW w/10-20% arangles. WF-VEGI water @3 9-25 SAND, SILY W SMI MILITER PRA GRANE . ZO-25 SW 5,14 , VF - KA 25-40.570 GRAVEL, GW cleaned sty, w/10-20% 38.5-40.5(TD) V. HARD calichified gravel . Fractured REFUSAL @40,5' PAGE DATE DRILLED GRAPHIC LOG LEGEND Y Water Table (24 Hour) 2-19-93 CLAY  $\nabla$ Water Table (Time of Boring) DRILLING METHOD PID NO. TYPE Photoionization Detection (ppm) Identifies Sample by Number Sample Collection Method HAMMER HIGHLY ORGANIC (PEAT) SHT SAND SANDY CLAY LAYNE SPLIT-BARREL LOGGED BY GRAVEL CLAYEY SAND ED KRISH

EXISTING GRADE ELEVATION (FT. AMSL) CONTINUOUS NO RECOVERY SILTY CLAY WALLED TUBE CLAYEY LOCATION OR GRID COORDINATES DEPTH Depth Top and Bottom of Sample REC. Actual Length of Recovered Sample in Feet

KERR-McGEE CORPORATION HYDROLOGY DEPARTMENT							
MONITORING WELL INSTALLATION DIAGRAM							
Protective Pipe	Casing Cap Vent	? Yes 🔲 No 🔯					
Yes No 🔯	Lock ? Yes	No 🖾					
Steel PVC	Weep Hole ? Yes	□ No □					
Surveying Pin ?Ft.	Concrete Pad	Ft. xFt. xInches					
Yes No V		DRILLING INFORMATION:					
	DEPTH FROM 1	. Borehole Diameter= 15 25 Inches.					
Concrete VAULT 1 Ft.	BELOW TOP OF	. Were Drilling Additives Used ? Yes No 🔯					
	GRADE CASING 2	Revert Bentonite Water					
		Solid Auger 🔲 Hollow Stem Auger 🗍					
	3	. Was Outer Steel Casing Used? Yes 🗌 No 🔯					
Cement/Bentonite Grout Mix		Depth=toFeet.					
Yes ☐ NoN☐	4	Borehole Diameter for Outer Casinginches.					
5.5 Gallons Water to	l l	ELL CONSTRUCTION INFORMATION:					
94Lb. Bag Cement & Ft. 3-5 Lb. Bentonite		.Type of Casing: PVC ☑ Galvanized ☐ Teflon ☐					
Powder	<b>    </b>	Stainless Other					
Other: Concrete	2	2. Type of Casing Joints: Screw-Couple De Glue-					
	2	Couple Other  5. Type of Well Screen: PVC Galvanized					
		Stainless A Tefion D Other VEE-WIRE					
Bentonite Seal		4. Diameter of Casing and Well Screen:					
Polleto St. Shares St.		Casing Inches, Screen Inches.					
Pellets 🖾 Slurry 🗌	<u> 4.5</u>	5. Slot Size of Screen:					
Filter Pack	4 17:414	S. Type of Screen Perforations Factory Slotted 🔟					
Above ScreenFt.		Hacksaw Drilled Dother					
	6.5	7. Installed Protector Pipe w/Lock: Yes No					
		WELL DEVELOPMENT INFORMATION:					
	国:::: 1	I. How was Well Developed? Bailing 🔲 Pumping 🔟					
FILTER PACK MATERIAL	담사	Air Surging (Air or Nitrogen) Other					
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>日</b> 日	2. Time Spent on Well Development ?					
Silica Sand	昌哥	/Minutes/Hours					
Washed Sand 🔲 💮 🔭 🔭	国(4)	3. Approximate Water Volume Removed ? 1 200 Gallons					
Pea Gravel 🗌 🧀		4. Water Clarity Before Development ? Clear 🔟					
Other:	目引	Turbid Opaque					
		5. Water Clarity After Development ? Clear					
Sand Size		Turbid					
		If Yes, Describe					
Dense Phase Sampling Cup	1 (2)	7. Did Water have any Color ? Yes No No					
Bottom Plug	1.1:11	If Yes . Describe					
Yes No 🗆	38.5	WATER LEVEL INFORMATION:					
Overdrilled Material	j	Water Level Summary (From Top of Casing)					
Backfill Ft.	j	During Drilling Ft. Date 2:19-53					
Grout Sand C Caved Material	1 40,5	Before Development $2.95$ Ft. Date $2-21-03$					
Others		After Development Ft. Date					
		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon					
Driller/Firm PERRY / LAYN	C Drill Rig Type APP	Date Installed 2-20-05					
Drill Crew Bo / MARCO	Well No. PC 12	Kerr-McGee Hydrologist					